GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

MAGNETIC, METEOROLOGICAL AND SEISMOGRAPHIC OBSERVATIONS

MADE AT THE

GOVERNMENT OBSERVATORIES,

BOMBAY AND ALIBAG,

IN THE YEAR

1930

UNDER THE DIRECTION OF

S. K. BANERJI, D.Sc.

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INTRODUCTION.

This volume on the magnetic, meteorological and seismographic observations made in the Government Observatories, Bombay and Alibag, during the year 1930, has been prepared in the same form as the volumes for the years 1927, 1928 and 1929. The hourly values of all the important meteorological and magnetic elements have been given and these represent their average values over one hour and not their momentary values at the end of every hour. This volume is the fifty-second volume of its kind issued by the Observatory and extends the records of continuous meteorological and magnetic observations to a period of eighty-five years and of seismographic observations to a period of thirty-two years. The transference of magnetic work from Colaba to Alibag in 1904, due to the city of Bombay having decided to have electric tram service, caused a certain amount of discontinuity in the magnetic records, which had run uninterruptedly then at Colaba for about sixty years, but as comparative observations could be taken at both the stations for a period of two years before the electric tram lines were completed and the service had commenced its operations, the 'discontinuity' could be calculated and allowed for. The comparative observations show that at Alibag, the horizontal component of magnetic force stands lower by 0·00510 C. G. S. unit of force, easterly declination stands higher by 53′·5 and inclination stands higher by 1° 4′·7 than at Colaba, and these are the finally adopted differences between the two sites. The figures published in this volume, like those in the previous volumes since 1906, have not been corrected for these differences.

The Colaba Observatory is situated almost at the extreme south end of the narrow ridge of land extending about three miles to the south-west of the Fort of Bombay and separating the Harbour from the Back Bay. The level of the Observatory compound is about 32 feet above the mean level of the sea. The regular registration of meteorological observations in the Colaba Observatory commenced in November 1841.

The astronomical co-ordinates* giving the position of the Colaba Observatory are :—

Latitude	18° 53′ 36·18″ N.
Longitude	72° 48′ 54·03″ E.

The Alibag Magnetic Observatory is situated on the main land about 18 miles south-south-east of Bombay, and its astronomical co-ordinates are—

Latitude	18° 38′ 17″ N.
Longitude	72° 52′ 21″ E.

For a general description of the buildings and instruments in both the Observatories, see "Magnetical, Meteorological and Seismographic Observations made at the Government Observatories, Bombay and Alibag, 1906—1910," and also the similar volume for 1916—20.

Unless otherwise stated, all times given in this volume refer to local mean time.

Meteorological instruments at Colaba.

1. *Standard Barometer.*—The barometer is by Newman (No. 58) and has been in uninterrupted use since the establishment of the Observatory. It reads on an average 0·004″ below the Kew Standard and 0·012″ below the old Calcutta standard barometer. The height of the barometer is 37 feet above the mean sea-level. A subsidiary standard barometer, Newman No. 48, has also been maintained in the underground constant temperature room, and its reading exceeded that of the standard barometer by 0·002″ on the average during the year.

2. *Barograph.*—The instrument is of the Kew pattern and was installed in the underground constant temperature room in 1872. The variation of pressure is recorded photographically. The barograph has been treated, as in the past, as an independent instrument in respect of the variation of pressure occurring in the course of a day. A comparative study of the differences between the readings of the barograph and of the standard barometer for a large number of years indicates that their differences maintain fairly constant values and do not show variations at different hours of the day. During the year all eye observations of barometer were stopped except at 8 hrs. The mean of the excesses of the eye observations of the standard barometer made at 8 hrs. on seven consecutive days over the corresponding barograph tabulations has been applied as a common correction to all the tabulated hourly readings of the day which is the fourth of the seven.

3. *Standard Dry bulb and Wet bulb Thermometers.*—On the 26th November 1917, the freezing points were tested and the zero of the dry bulb standard thermometer No. 401 was found to have changed from 32°·6 to 32°·0 F. and that of the wet bulb standard thermometer No. 402 from 32°·5 to 33°·0 F. These thermometers were again tested on the

*Magnetic, Meteorological and Seismographic observations made at the Government Observatories, Bombay and Alibag, 1923, p. 1.

3rd February 1926 and their corrections were found to be the same as those determined in 1917. Besides the above, there are eye reading dry bulb, wet bulb, maximum and minimum thermometers installed in a standard Stevenson Screen. The heights of the bulbs of the thermometers above the ground in the two sheds are given below :—

Thermograph Shed ; Dry bulb 10′ ; Wet bulb 10′.

Stevenson Screen ; ,, ,, 4′ 4½″ ; ,, ,, 4′ 4″ ; Max. 4′ 11½″ ; Min. 4′ 4″.

For the results of comparative observations of these thermometers see p. 2 of the volume for the year 1924.

4. *Kew Dry bulb and Wet bulb Thermograph.*—The bulbs of these thermograph thermometers are placed close to those of the standard dry and wet bulb thermometers in a large double-louvre shed constructed in 1872, and the variation of temperatures is recorded photographically. The tables of air temperature have been obtained from the tabulations of dry bulb and of humidity from dry and wet bulb thermograms. The mean differences between the readings of the standard dry and wet bulb thermometers described in the preceding para. and the corresponding readings of the thermograms for the year 1930 were +0°·2 and +0°·1 respectively and were neglected.

5. *Robinson-Beckley's Anemograph.*—This anemograph is of the kind designed by Robinson, with improvements by Robert Beckley and has been in uninterrupted use in the Observatory since 1867, except that a new instrument of the same pattern and by the same makers was installed in 1907 to replace the old one. It is erected on the Anemometer Tower with its cups at a height of 58 feet above the ground and 100 feet above the mean sea-level. The centres of each pair of opposite hemi-spherical cups are four feet apart, and the diameter of each of the cups is 9 inches. The diameter of the vanes of the direction recorder is 15 inches and the breadth of the fans 4 inches.

6. *Dines' Anemograph, 1924 (velocity and direction).*—The old Dines' anemograph which was in continuous operation from 1896 and was provided with velocity recorder only was stopped in December 1929. A new Dines anemograph provided with both velocity and direction recorders by R. W. Munro and Co. was received in 1923 and installed on the Anemometer Tower in January 1924. With a view to get the best possible exposure, its modern type T-shaped head-vane was placed on the top of a telegraph post, 32·5 feet high, fixed on the Tower at a distance of 3 feet from the cups of the Robinson-Beckley's anemograph. The vane was therefore 27 feet above the level of Robinson-Beckley's cups and 127 feet above the mean sea-level. The diameter of the post near the Beckley's cups is 8 inches and it does not therefore exercise any appreciable influence on the records of Robinson-Beckley. This is due to the fact that in a current of air flowing past a fixed cylindrical obstacle, the stream lines, although they get deformed near the obstacle, assume again very nearly the original configuration at a distance from the obstacle equal to its diameter, and at this distance the velocity of the air current, too, attains almost its original value. The results of a series of comparisons of this instrument with a U-tube pressure-gauge showed that W, the difference in level of water in inches in the two arms of the U-tube, which is a measure of the pressure exerted by the wind, and V, the velocity of the wind in miles per hour as indicated in the charts, practically obey the standard law, namely, $W = \cdot 000731\ V^2$.

The height of the vane of this anemometer is 26′ feet above that of the old Dines' anemometer. On account of this greater height, this instrument records a larger velocity of wind, and smaller gustiness ; the types of records by the two instruments are however identical. The ratio of the mean wind velocities recorded by the new Dines' anemograph to those recorded by the Beckley's anemograph during 1924—30 is given below for the different months, seasons and the year :—

Ratio of Wind Velocities	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Means. October to February.	Means. March to May.	Means. June to September.	Means. Year.
New Dines to Rob. Beckley. (1924-30)	1·44	1·45	1·36	1·36	1·42	1·47	1·74	1·74	1·64	1·51	1·55	1·46	1·44	1·39	1·51	1·51

The hourly values of wind velocity and wind direction tabulated in this volume represent the average of the Dines' records for periods of sixty minutes, from full hour to full hour of local mean time. The daily mean directions have been derived by converting the hourly velocity into N or S and E or W components and combining the mean components.

7. *Rain-gauge.*—Newman's rain-gauge, which has been in use since 1845, exposes for the collection of rain drops at a height of four feet above the ground a circular surface of an average diameter of 12·035 inches, forming the tip of the funnel, which opens into a cylindrical vessel below, having a diameter of 5·732 inches. Each division of the graduated rod resting on the float represents ·05 inch of rain and the readings of this scale are easily estimated to one-fifth of a division.

8. *Photographic Rain-gauge.*—This instrument takes a continuous record of rainfall by photographing the head of a mercury column balancing the rainfall collected in a glass vessel, with an arrangement for syphon discharge when full. A full description of this instrument will be found in the introduction to the " Bombay Magnetical and Meteorological Observations, 1871 to 1878 ", page xlvi. For methods of reduction of pluviograph records, reference is made to the introduction to the " Bombay Magnetical, Meteorological and Seismographic Observations, 1916-20 ". The height of the receiving funnel of this instrument is 28 feet above the ground. On account of its greater height, the pluviograph gives a lower value for rainfall than that by Newman.

For comparative study a syphon rain-gauge by L. Casella, London, was installed in the enclosure of the standard Newman rain-gauge on the 12th June 1930, so that the receiving funnels of both were at the same height.

Magnetic Instruments at Alibag.

Variation Instruments.

The horizontal force, vertical force and declination magnetographs in use at Alibag are all by Watson and are mounted on isolated pillars in the magnetograph room. They were maintained in continuous action throughout the year. As explained on pages 1-2 of the Observatory volume for 1927, the sensitiveness of the vertical force magnetograph was increased eightfold on the 7th August 1927, by introducing certain alterations in the mechanism for adjusting the position of the centre of gravity of the 'balance'. The instrument worked very satisfactorily throughout the year and furnished excellent records of the changes in the vertical force.

The maximum and minimum temperatures in the magnetograph room during 1930 are shown below in degrees Fahrenheit.

1930.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Maximum .	82·9	82·4	85·3	88·5	90·2	91·0	88·0	86·0	87·0	88·8	88·5	86·2	91·0
Minimum .	81·7	81·0	82·4	85·3	88·5	87·8	85·5	84·9	86·0	87·0	85·9	84·3	81·0

Two Eschenhagen variometers, one for horizontal force and the other for vertical force, are also installed in the magnetograph room and are read five times every day. A set of Kew Horizontal Force Magnetometer, Kew Vertical Force Magnetometer and Declination Magnetometer is installed in the ground-floor room of the magnetometer building as auxiliary eye-reading instruments. The declination magnetometer only was read during the year at the five observational hours. The eye observations were regularly plotted and were used mainly for a comparative study of the performance of the different instruments. The magnetograms have been used in deducing the tabulated results. The hourly tabulations represent the average values during one hour, centred at the full hours of Greenwich Mean Time.

The scale coefficients of the force magnetographs were obtained every fortnight from deflection observations performed on the instruments with deflectors, at a distance of 100 cm. and 120 cm. in the case of H and at a distance of 124·05 cm. and 148·6 cm. in the case of V magnetographs. The usual distribution coefficient $(1 + \frac{P}{r^2})$ was introduced in the formula for the computation of scale coefficients. It was found that the mean values of the factor in the case of H. F. magnetograph were for both the distances equal to unity and in the case of V. F. magnetograph were 1·11 and 1·07 for the nearer and the longer distances respectively. The value of the scale coefficient adopted for any month is the mean of the mean observed value for that month and those for the preceding and succeeding months.

The following table gives the scale coefficients for 1 cm. ordinate on the photographic paper of the force magnetographs in γ, where as usual, γ =0·00001 C. G. S. unit of force.

Instrument.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
H. F. Magnetograph	45·3	45·2	44·9	44·6	44·3	44·4	44·6	44·6	44·6	44·4	44·6	44·7
V. F. Magnetograph	10·9	11·0	11·2	11·4	11·8	12·0	12·1	11·8	11·8	11·9	12·1	12·1

The scale coefficient of the declination magnetograph for 1 cm. of ordinate is 10'·28.

The temperature coefficient for the horizontal force magnetograph has been determined by heating experiments and its adopted value is ·000036 in C. G. S. unit for 1° F. The temperature coefficient of the vertical force magnetograph was found by similar experiments to be negligible as no appreciable change in force, after allowing for the actual diurnal change, could be definitely ascertained as being due to temperature effect. The above conclusions have been checked by an analysis of the observed monthly values of base* lines by means of the formula $B_t = B_m + \alpha\ (t-m)$, where B_t is the monthly mean value of the base line, uncorrected for temperature but corrected for the slow secular change caused by the loss of magnetic moment and other causes, t the mean temperature during the month, B_m the annual mean of the observed values of the base line, m the annual mean temperature of the magnetograph room, and α the temperature coefficient. Several years' data have been analysed in this manner. The mean value of α for H. F. based on the data for the years 1924-30 is ·000052 in C. G. S. unit for 1°F. The adopted value is thus seen to be smaller by about 31 per cent. than that obtained by this method, but no correction has been introduced in the reduction on account of this difference. For V. F. the value of α appears to be negligible.

Absolute Instruments.

Two magnetometers have been under regular observation during the period for obtaining the absolute values of horizontal force and declination. Magnetometer No. 7 by T. Cooke and Sons, which is the standard instrument at Alibag, is of the ordinary type of Kew pattern instruments but is modified and improved in several important details. The other instrument is Magnetometer No. 3 by the Cambridge Scientific Instrument Company and is of the usual Kew pattern. Instrument No. 7 is observed on the second floor of the magnetometer building, while instrument No. 3 with magnets No. 137 is observed on the first floor and with magnets No. 3 on the second floor. A pair of new magnets No. 7 with their constants determined at the Greenwich Magnetic Observatory (Abinger) was received from Messrs. Cooke, Troughton and Sims, Limited, and observations of Horizontal Force and Declination were taken every four weeks with these magnets and magnetometer No. 7 on the second floor throughout the year for comparative purposes. The results show very close agreement with those obtained with the old magnets No. 7.

The value of the correction, $\text{Log}_{10}\left(1+\frac{p}{r^2}+\frac{q}{r^4}\right)^{-1}$ used in the reduction of the horizontal force observations was obtained for a given month by taking the mean for seven months including the given month as fourth of the seven. The values of this correction for the different months of the year for the standard instrument at the deflection distance 22·5 cm. were as follows :—

January	.. 9·99307	May	.. 9·99297	September	.. 9·99289
February	.. 9·99302	June	.. 9·99296	October	.. 9·99282
March	.. 9·99302	July	.. 9·99291	November	.. 9·99280
April	.. 9·99298	August	.. 9·99291	December	.. 9·99276

Earth Inductor No. 41 by Schulze of Potsdam and galvanometer No. 200 by Plath are installed on specially constructed pillars in the second floor, while Inductor No. 108 by Otto Toepfer and its galvanometer are installed in the first floor of the magnetometer bnilding. Both these instruments were in regular use.

*Memoirs of the Indian Meteorological Department, Vol. XXV, Part VII.

System of observation at Colaba.

From the beginning of 1929, the eye observations of the barometer and thermometers at 10 hrs. and 16 hrs. were stopped but continued to be taken at 8 hrs. An afternoon observation at 17 hrs. Indian Standard Time was however introduced from the 15th November 1929.

The eye observations at 8 hrs. (local time) and 17 hrs. (Indian Standard Time) were taken in the following order :—

From 5 minutes to the hour to 2 minutes after the hour.	Extent and description of clouds, state of weather, occasional phenomena and direction of the wind.
At 2 ,, ,, ,,	Thermograph standard thermometer, dry-bulb. Thermograph standard thermometer, wet-bulb.
At 3 ,, ,, ,,	Newman's rain-gauge (in wet season).
From 7 to 9 ,, ,,	Newman's standard barometer No. 58 and attached thermometer. Newman's standard barometer No. 48 and attached thermometer (read at 8 hrs. only).
At 10 ,, ,, ,,	Thermometer attached to barograph (read at 8 hrs. only).

Observations of the extent and description of clouds, state of weather, occasional phenomena and rainfall (in wet season) were also taken at 6, 10, 14, 16 and 22 hrs. Observations with nephoscope were taken at $8\frac{1}{2}$, $12\frac{1}{2}$ and $16\frac{1}{2}$ hrs. every day. The maximum and minimum thermometers in the Stevenson Screen were read twice daily at 8 hrs. and 16 hrs.

During the monsoon months, Newman's rain-gauge was read daily at midnight in addition to the usual observations and the discharges of the syphon of the self-registering pluviograph were also read as often as required.

A Campbell-Stokes Sunshine recorder was installed on the balloon observation tower and was brought into regular use from August 1925.

Observations of magnetic declination were made once every month at Colaba about the 15th of each month. The mean of the differences between the observed absolute values of declination at Colaba and Alibag, from 1906 to 1930, is 53'·0 and this agrees fairly well with the value obtained by the comparative observations taken at the two stations in the years, 1904 and 1905.

Time-supply service.

The electric Clock in the Colaba Observatory controlling the drop of the time ball was duly regulated every day by comparison with the standard sidereal clocks, two Rieflers and one Kullberg. Government chronometers, belonging to the Royal Indian Marine and the Royal Navy, were wound daily or twice a week as required and comparisons with the standard clock were made with sufficient frequency to render the instruments always ready for issue at call with well determined rates.

Experience during the past few years showed that the time signals broadcasted from Bordeaux, Rugby and Nauen could be received at Bombay almost every day. Further observations of transits of stars were therefore no longer considered necessary. They were accordingly discontinued with effect from the 28th May 1928. The two transit instruments in the Observatory were, however, maintained in a condition so that they could be brought into use any time should the wireless signals fail to be received for any reason. Observations of rhythmic signals broadcasted from Bordeaux and Rugby were taken regularly during the year.

System of observation at Alibag.

Eye observations of the instruments mentioned below were taken daily, Sundays included shortly before 6, 10, 14, 16 and 22 hrs. at the instants specified aginst them.

These instants have been chosen so that they may approach as nearly as possible to the full hour of Greenwich Mean Time, which corresponds to 51 mins. of local time.

At 15 minutes to the hour	. Declination Magnetometer and thermometer in the Magnetometer room.
„ 11 „ „ „	. Eschenhagen's Vertical Force Variometer and attached thermometer.
„ 10 „ „ „	. Watson's Vertical Force Magnetograph and attached thermometer.
„ 9 „ „ „	. Watson's Declination Magnetograph.
„ 8 „ „ „	. Watson's Horizontal Force Magnetograph and attached thermometer.
„ 7 „ „ „	. Eschenhagen's Horizontal Force Variometer and attached thermometer.
„ 6 „ „ „	. Thermograph and the standard thermometer in the Magnetograph room (read twice daily at 6 and 16 hrs. only).

Deflection experiments, with vibration magnet of magnetometer No. 137, the moment of which is determined every fortnight as deflector at distances of 100 cm. and 120 cm. on the horizontal force magnetograph and at distances of 124·05 cm. and 148·6 cm. on the vertical force magnetograph were made once every fortnight. Similar deflection experiments with vibration magnet of magnetometer No. 3 as deflector were made once a month for the purpose of check work.

Deflection experiments, with vibration magnet No. 137 as deflector at a distance of 100 cm. on the Eschenhagen's horizontal force variometer, and at a distance of 75 cm. on the Eschenhagen's vertical force variometer, were also made once a fortnight.

Observations of absolute horizontal force were made with the Observatory standard instrument No. 7 and magnets No. 7 (old) on Wednesdays. Observations of absolute horizontal force were also taken with—

(1) the auxiliary magnetometer No. 3 and magnets No. 137, and
(2) the auxiliary magnetometer No. 3 and magnets No. 3, on alternate Mondays, and with,
(3) the standard magnetometer No. 7 and magnets No. 7 (new) on a Friday once in four weeks.

Observations of absolute declination were made with the standard magnetometer No. 7 and magnet No. 7 (old) on Thursdays. Observations of declination were also taken with—

(1) magnetometer No. 3 and magnet No. 137 on Thursdays once a fortnight,
(2) magnetometer No. 3 and magnet No. 3 once in four weeks on a Thursday, and
(3) standard magnetometer No. 7 and magnet No. 7 (new) once in four weeks on a Thursday.

Observations of inclination were made with the Schulze's Inductor, which is the Observatory standard instrument, and another inductor by Otto Toepfer every day in the year with the exception of Sundays and holidays. Each of the two inductor instruments was ordinarily observed on alternate days, but for check work both the instruments were observed one after the other on Saturdays.

Transit observations of stars for the determination of time were made generally on Tuesdays and Fridays in the dry months; during the monsoon months no opportunity was lost of observing the sun or stars whenever visible. The adjustment of the transit instrument was frequently tested by reference to the fixed collimator mark and by level observations; the errors of collimation, level and azimuth were determined once every month except during the monsoon months. A complete observation of all the meteorological elements was taken at Alibag at 8 hrs. throughout the year.

General Review.

1. *Weather.*—The southwest monsoon rains commenced at Bombay on the 9th June and practically ended on the 11th October. The total rainfall recorded during the year amounted to 89·98″ and was 19·44″ above the normal of 72 years. The mean temperature of the year was 80°·1 which was 0°·8 above the normal. The greatest maximum temperature recorded was 95°·6 on the 25th October and the lowest minimum was 58°·9 on the 2nd February. The mean temperature of all the months in the year was within 1° of the normal of the season. The mean velocity of wind during the year was 10·2 miles per hour. The greatest daily mean velocity was 28·0 miles per hour on the 29th October and the lowest was 5·1 miles per hour on the 17th October. The greatest mean hourly velocity was 44 miles on the 29th October while the velocity of a single gust of wind as recorded by the New Dines anemometer reached 50 miles per hour on the 28th October.

2. *Magnetic conditions.*—The mean and the extreme values of the magnetic elements at Alibag during 1930 are given below along with the corresponding values for the previous nine years :—

Year.	H						D						V						I
	Mean.	Maximum.		Minimum.		Absolute annual range.	Mean.	Maximum.		Minimum.		Absolute annual range.	Mean.	Maximum.		Minimum.		Absolute annual range.	Mean.
		Value.	Date.	Value.	Date.			Value.	Date.	Value.	Date.			Value.	Date.	Value.	Date.		
	γ	γ		γ		γ	′	′		′		′	γ	γ		γ		γ	° ′
1921	36935	37069	13th May.	36381	15th May.	688	15·9 E.	41·9 E.	15th May.	9·5 E.	7th July.	32·4	17227	17320	15th May.	17144	20th Jan.	176	25 0·3
1922	36946	37037	10th Mar.	36777	14th Sept.	260	12·6 E.	18·0 E	16th Feb.	6·6 E.	31st Aug.	11·4	17293	17351	12th Aug.	17222	5th Apr.	129	25 5·0
1923	36985	37071	27th Nov.	36854	24th Mar.	217	8·9 E.	13·6 E.	26th Jan.	3·6 E.	24th Sept.	10·0	17372	17432	3rd July.	17270	25th Jan.	162	25 9·6
1924	37029	37142	16th Oct.	36854	10th June.	288	5·6 E.	10·5 E.	29th Jan.	0·4 E.	15th Sept.	10·1	17452	17514	26th Dec.	17379	19th Jan.	135	25 14·1
1925	37065	37170	9th Mar.	36899	28th Dec.	271	3·4 E.	8·2 E.	24th May	2·0 W.	4th Sept.	10·2	17527	17589	25th Dec.	17421	21st Jan.	168	25 18·5
1926	37079	37227	26th Jan.	36755	15th Apr.	472	0·8 E.	9·9 E.	15th Apr.	4·9 W.	24th Aug.	14·8	17590	17654	15th Oct.	17504	4th Jan.	150	25 22·7
1927	37119	37350	22nd Oct.	36802	12th Oct.	548	1·9 W.	6·0 E.	22nd July.	8·6 W.	21st Aug.	14·6	17650	17710	24th Sept.	17565	14th Sept.	145	25 25·9
1928	37152	37463	7th July.	36718	8th July,	745	3·8 W.	11·6 E.	8th July	9·0 W.	19th Sept	20·6	17698	17778	28th May.	17608	30th April	170	25 28·3
1929	37209	37316	11th Aug.	36988	12th Mar.	328	5·9 W.	0·5 W.	16th Apr.	11·1 W.	5th Sept.	10·6	17736	17797	24th Dec.	17655	29th Jan.	142	25 29·1
1930	37253	37373	14th Oct.	37021	16th June	352	8·0 W.	2·6 W.	31st May	12·7 W.	25th Aug.	10·1	17777	17836	6th Oct.	17692	12th Jan.	144	25 30·6

The value of H has been steadily increasing since 1916. The increase from 1929 to 1930 is 44γ and is slightly greater than the average rate of increase, namely 35γ, during the last 10 years. Declination diminished during the year at a rate which is nearly the same as that during the last ten years. Both the vertical force and the inclination showed, as usual, a gradual increase.

The following table gives the character figure assigned to each day according to the international scheme. In accordance with the De Bilt circular letter of 1924, the figures have been deduced from a study of the departure of each day's range from the normal range for the day supplemented by an eye examination of the magnetograms.

Month.	"0" days.	"1" days.	"2" days.	Mean character figure.
1930.				
January	2, 9, 10, 11, 12, 14, 15, 16, 18, 23, 24, 25, 26, 27, 28.	1, 7, 8, 13, 17, 19, 20, 21, 22, 29, 30, 31.	3, 4, 5, 6	0·65
February	4, 5, 6, 8, 9, 10, 11, 21, 22, 27	1, 2, 3, 7, 17, 18, 19, 20, 23, 24 25, 26.	12, 13, 14, 15, 16, 28.	0·86
March	4, 5, 6, 7, 8, 9, 10, 30, 31	2, 3, 11, 16, 17, 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29.	1, 12, 13, 14, 15, 24.	0·90
April	2, 3, 4, 5, 17, 27	1, 6, 11, 12, 13, 14, 15, 16, 18, 23, 24, 25, 26, 28.	7, 8, 9, 10, 19, 20, 21, 22, 29, 30.	1·13
May	1, 2, 3, 11, 14, 15, 23, 24, 26, 27, 28, 29	4, 6, 7, 8, 10, 12, 13, 16, 18, 19, 20, 21, 22, 25, 30.	5, 9, 17, 31	0·74
June	5, 6, 10, 11, 20, 21, 22, 23, 24, 25, 26, 30.	1, 2, 3, 4, 7, 8, 9, 13, 14, 15, 17, 18, 19, 27, 28, 29.	12, 16.	0·67
July	1, 6, 7, 8, 14, 15, 18, 19, 20, 21, 22, 23, 27, 28, 31.	2, 3, 4, 5, 9, 10, 11, 12, 13, 16, 17, 24, 25, 26, 29, 30.		0·52
August	1, 2, 3, 4, 17, 18, 20, 25, 26, 28, 29, 30, 31	5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19, 21, 22, 23, 24, 27.	6, 7.	0·65
September	10, 12, 13, 14, 15, 16, 20, 22, 25, 26, 27	1, 2, 3, 4, 5, 7, 8, 9, 11, 17, 19, 21, 23, 24, 28.	6, 18, 29, 30	0·77
October	9, 10,11, 12, 13, 15, 16, 22, 23, 24	2, 5, 6, 7, 8, 18, 19, 21, 25, 30, 31.	1, 3, 4, 14, 17, 20, 26, 27, 28, 29.	1·00
November	3, 5, 6, 7, 10, 11, 12, 16, 18, 19, 20, 21, 22, 30.	1, 2, 8, 9, 13, 15, 17, 23, 26, 27, 28, 29.	4, 14, 24, 25	0·67
December	1, 2, 5, 6, 7, 8, 9, 10, 11, 15, 16, 17, 18, 25, 26, 27, 28, 30, 31.	12, 13, 14, 19, 22, 23, 24, 29	3, 4, 20, 21	0·52

The annual mean character figure, as assigned by the Observatory, to the year 1930 is 0·76, while that assigned to the year 1929 is 0·67 and to 1928 0·73. The corresponding De Bilt figures are 0·83, 0·67 and 0·65 respectively. Both the international as well as the local characterisations therefore suggest that the year 1930 as a whole was more disturbed than the previous two years. This is rather peculiar in view of the fact that 1928, was the sunspot maximum year, and the mean sunspot numbers for 1928, 1929 and 1930 were 77·8, 65·0 and 35·7 respectively. The large character figure of 1930 was apparently due to the fact that the disturbances of the year, although mostly not of great intensity, were generally long continued. April was the most active and July and December the most inactive months in the year.

Absolute observations and Base Line Values.

Declination.

Absolute observations of declination were made once a week on Thursdays with the standard magnetometer No. 7. For comparative purposes, an observation of declination was taken immediately afterwards with the auxiliary magnetometer, No. 3 as already indicated.

Base-line values are derived by converting the ordinates corresponding to absolute observations with instrument No. 7 and magnets No. 7 (old) into angles and subtracting the converted ordinates from the observed absolute declination. The values so obtained of the base-lines of the declination magnetograph denote westerly declination.

The adopted values are derived by taking overlapping means of 5 successive observations and reducing them to the proper epoch, values for intermediate days being obtained by simple interpolation.

Declination base-line values, 1930.

(0° *plus* tabular minutes.)

Date.	Observed.	Adopted.	Date.	Observed.	Adopted.	Date.	Observed.	Adopted.
	′	′		′	′		′	′
January 2 .	69·4 W	69·5 W	May 1 .	69·3 W	69·0 W	September 4 .	69·0 W	69·1 W
„ 9 .	69·7	69·4	„ 8 .	69·2	68·8	„ 11 .	69·3	69·1
„ 16 .	69·6	69·5	„ 15 .	67·6	68·8	„ 18 .	69·0	68·8
„ 23 .	69·3	69·3	„ 22 .	68·9	68·4	„ 25 .	68·6	68·8
„ 30 .	69·5	69·3	„ 29 .	68·8	68·1	October 3 .	67·9	68·8
February 6 .	68·6	69·4	June 5 .	67·5	68·3	„ 9 .	69·2	68·8
„ 13 .	69·7	69·7	„ 12 .	67·9	68·2	„ 16 .	69·3	68·9
„ 20 .	69·8	69·9	„ 19 .	68·5	68·2	„ 24 .	69·1	69·1
„ 28 .	70·7	70·3	„ 26 .	68·4	68·3	„ 30 .	69·1	69·1
March 6 .	70·9	70·3	July 3 .	68·8	68·4	November 6 .	69·0	69·1
„ 13 .	70·6	70·2	„ 10 .	67·9	68·4	„ 13 .	69·2	69·2
„ 20 .	69·4	70·0	„ 17 .	68·5	68·4	„ 20 .	69·3	69·5
„ 27 .	69·6	69·7	„ 24 .	68·3	68·4	„ 27 .	69·3	69·6
April 3	69·3	69·5	„ 31 .	68·3	68·6	December 4 .	70·5	69·8
„ 10 .	69·8	69·5	August 7 .	68·9	68·5	„ 11 .	69·7	69·9
„ 17 .	69·6	69·4	„ 14 .	68·7	68·8	„ 18 .	70·0	70·1
„ 24 .	69·1	69·4	„ 21 .	68·4	68·9	„ 25 .	70·1	70·1
			„ 28 .	69·7	69·0			

Horizontal Force.

Absolute observations of horizontal force were made every week, on Wednesdays with the standard magnetometer No. 7 and magnets No. 7 (old). Observations with the auxiliary magnetometer No. 3 and magnets No. 3 and No. 137 were taken every week on Mondays and also with magnetometer No. 7 and magnets No. 7 (new) on Fridays once in four weeks as already indicated. A day's observations comprise a double set of vibration and deflection experiments at three distances, which for No. 7 are 22·5 cm., 30 cm. and 40 cm. In calculating the base-line values the mean of the observed values at all the three distances has been used.

Base-line values are derived by converting the mean ordinates corresponding to absolute observations with instrument No. 7 in terms of γ and subtracting the converted ordinates from the mean observed absolute horizontal force. They are further reduced to a uniform temperature of 85° F. to make the series comparable from month to month and year to year.

The adopted values are derived by taking overlapping means of 5 successive double sets of observations and reducing them to the proper epoch, values for intermediate days being obtained by simple interpolation.

The Horizontal Force magnetograph was adjusted on the 9th March 1930.

Horizontal force base-line values at 85° F., 1930.

Date.	Observed.	Adopted.	Date.	Observed.	Adopted.	Date.	Observed.	Adopted.
	γ	γ		γ	γ		γ	γ
January 1 .	36,881	36,884	May 7 .	37,013	37,011	September 3 .	37,009	37,005
„ 8 .	890	884	„ 14 .	014	014	„ 10 .	003	008
„ 15 .	883	884	„ 21 .	019	018	„ 17 .	36,999	009
„ 22	885	885	„ 28 .	017	017	„ 24 .	37,013	011
„ 29 .	879	885				October 1 .	37,021	37,015
February 5 .	36,887	36,886	June 4 .	37,028	37,017	„ 8 .	018	018
„ 12 .	891	887	„ 11 .	005	016	„ 15 .	021	020
„ 19 .	885	888	„ 18 .	015	011	„ 23 .	018	018
„ 27 .	890	887	„ 25 .	005	006	„ 29 .	020	016
March 5 .	36,885	36,885*	July 2 .	37,004	37,006	November 5 .	37,011	37,013
„ 13 .	998	998	„ 9 .	003	003	„ 12 .	007	013
„ 19 .	999	995	„ 16 .	005	003	„ 19 .	010	010
„ 26 .	987	997	„ 23 .	001	001	„ 26 .	014	009
April 2 .	37,001	36,999	„ 30 .	005	001	December 3 .	37,007	37,009
„ 9 .	001	995	August 6 .	36,993	37,000	„ 10 .	007	007
„ 16 .	007	37,003	„ 13 .	37,004	003	„ 17 .	004	006
„ 23 .	001	006	„ 20 .	36,999	004	„ 24 .	004	006
„ 30 .	005	008	„ 28 .	37,016	006	„ 31 .	010	006

* Adjustment of H. F. magnetograph.

Vertical Force.

Dip observations with inductors were made every day in the year, with the exception of Sundays and holidays, each of the two instruments being observed on alternate days.

Base-line values are derived by expressing the mean ordinates of V. F. magnetograms corresponding to the inclination observations in terms of γ and subtracting the converted ordinate from the absolute vertical force obtained by multiplying the value of H. F. at

the time by the tangent of inclination given by Inductor observations. Values derived from Inductor No. 108 are reduced to those derived from Inductor No. 41 (which is the Observatory standard) by applying the mean correction for the month deduced from the comparative observations taken on Saturdays of every week.

The adopted values are derived by taking overlapping means of 7 successive observations and reducing them to the proper epoch, values for those days not given by this operation being obtained by simple interpolation.

The vertical force magnetograph was adjusted on the 21st December 1930. As already remarked the sensitiveness of the instrument increased eight times in consequence of the change introduced on the 7th August 1927 in the mechanism for altering the sensitiveness.

Vertical force base-line values, 1930.

Date.	Observed.	Adopted.	Date.	Observed.	Adopted.	Date.	Observed.	Adopted.
	Υ	Υ		Υ	Υ		Υ	Υ
January 2 .	17,686	17,699	May 1 .	17,713	17,705	September 4 .	17,784	17,774
„ 9 .	741	738	„ 8 .	682	683	„ 11 .	738	734
„ 16 .	717	735	„ 16 .	707	687	„ 18 .	752	746
„ 23 .	739	726	„ 22 .	674	666	„ 25 .	773	762
„ 30 .	742	726	„ 29 .	662	682	October 2 .	790	761
February 5 .	686	696	June 5 .	704	689	„ 9 .	765	741
„ 13 .	718	722	„ 12 .	703	688	„ 16 .	714	717
„ 20 .	733	720	„ 19 .	714	699	„ 23 .	683	694
„ 27 .	777	762	„ 26 .	706	706	„ 30 .	697	689
March 6 .	727	731	July 3 .	730	745	November 6 .	701	704
„ 13 .	717	725	„ 10 .	769	772	„ 13 .	682	679
„ 20 .	742	748	„ 17 .	799	784	„ 20 .	726	705
„ 27 .	788	772	„ 24 .	787	773	„ 27 .	687	683
April 3 .	713	725	„ 31 .	747	753	December 4 .	671	682
„ 10 .	705	699	August 7 .	718	734	„ 11 .	648	671
„ 18 .	712	713	„ 13 .	737	742	„ 18 .	684	683
„ 24 .	702	704	„ 21 .	788	771	„ 25 .	750	751*
			„ 28 .	789	788			

* Adjustment of V. F. magnetograph.

Seismographs.

The Milne-Shaw Seismograph (N-S component), which was kept in continuous action in the underground constant temperature room, gave excellent records of earthquakes and microseisms during the year. A new Milne-Shaw seismograph was received in October and installed in the underground constant temperature room on the 5th November 1930 as the E-W component. The performance of this instrument has been very satisfactory. The earthquakes recorded by these instruments will be found tabulated towards the end of the volume. The locally constructed seismograph of the Omori type (N-S and E-W components) was kept in continuous operation during the year as an auxiliary instrument. The Omori-Ewing Seismograph (E-W component) was maintained in good condition, but was not kept in continuous action throughout the year.

Magnetic Storms.

In plates I, II, III, IV and V are reproduced disturbed magnetic records for days recommended for publication by the International Commission of Terrestrial Magnetism. The base-line values and scale co-efficients are shown with each curve. The hourly breaks last for 2 to 3 minutes and the time shown against a break is the time for the middle of the break expressed in Greenwich Mean Time. Increasing ordinates for H. F. and V. F. curves mean increase in force, and for the declination curves decrease of westerly declination.

Atmospheric Electricity.

Observations of the variation in the potential gradient were continued during the year. For this purpose two Bendorf self-recording electrometers were installed. One of these was joined to a double-nozzle Kew pattern water-dropper and the other to an *ionium* collector supplied by the Carnegie Institution of Washington. A photographic electrograph by Cambridge Instrument Co., as described in the Journal of Scientific Instruments, Vol. V, May 1928, pages 145—152, was received in May 1930 and installed on the 13th June 1930 in the old Milne seismograph room. Its radium collector was exposed through a hole in the wall at a height of 150 cm. above ground and its farthest end at a distance of 110 cm. from the wall. The results will be published in due course.

S. K. BANERJI,
Meteorologist, Bombay.

Colaba Observatory, Bombay,
The 16th November, 1931.

Meteorological Tables.

(Colaba Observatory.)

JANUARY. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)

(IN INCHES OF MERCURY AT 32° F.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	29·903	29·889	29·886	29·879	29·901	29·906	29·921	29·936	29·955	29·966	29·959	29·935	29·913	29·877
2	·907	·894	·886	·882	·888	·893	·919	·939	·965	·967	·956	·929	·905	·881
3	·894	·881	·875	·864	879	·889	·916	·927	·953	·961	·958	·925	·901	·861
4	·906	·894	·891	·880	·894	·910	·934	·948	·978	·976	·964	·937	·910	·892
5	·910	·903	·901	·887	·898	·907	·929	944	·980	·985	·980	·956	·931	·895
6	·938	·927	·928	·924	·931	·928	·945	·964	·981	·983	·975	·951	·929	·899
7	·949	·935	·933	·932	·942	·943	·957	·967	·989	·994	·996	·976	·953	·917
8	·942	·927	·924	·923	·935	·933	·957	·977	30 003	30·006	30·012	·982	·953	·926
9	·939	·921	·919	·904	·905	·919	·952	·980	·015	·018	·016	·984	·954	·913
10	·960	·948	·938	·934	·944	957	·992	30·016	·054	·060	·060	30·030	·996	·970
11	30·027	30·022	30·007	30 001	30·011	30·009	30·037	·054	·075	·084	**·085**	·059	30·016	·991
12	·005	29·995	29·981	29·969	29·976	29·979	·000	·006	·034	·033	·018	29·988	29·952	·924
13	29·925	·909	·901	·897	·901	·901	29·923	29·942	29·967	29·963	29·947	·920	·889	·859
14	·911	·902	·897	·897	·907	·920	·953	·981	30·021	30·023	30·023	30·011	·975	·943
15	30·001	·984	·974	·974	·970	·972	·993	30·015	·037	·033	·023	29·991	·964	·923
16	29 918	·904	·897	·886	·890	·894	·919	29·936	29·974	29·975	29·970	·944	·927	·910
17	·935	·930	·930	·923	·930	·938	·956	·974	·996	30·004	30·012	·978	·947	·908
18	·927	·915	·909	·904	·914	·924	·948	·968	·990	29·990	29·993	·971	·936	·908
19	·936	·936	·916	·914	·920	·938	·960	·980	30·007	30·009	·997	·972	·936	·909
20	·927	·915	917	·915	·924	·927	·947	·979	·016	·029	30·015	·983	·956	·918
21	·977	·957	·949	939	·944	·957	·977	·996	·008	·009	29·994	·958	·924	·890
22	·929	·917	·907	·899	·906	·900	·916	·940	29·980	29·990	·978	·948	·916	·880
23	·949	·936	·914	·914	·924	·934	965	·983	30·006	30·008	30·005	·969	·927	·882
24	·927	·893	·865	·858	·862	·860	·884	·896	29·945	29·949	29·956	·939	·918	·901
25	·919	·894	·883	·880	·892	·900	·930	·950	·978	·986	·984	·956	·927	·883
26	·909	·901	·891	·886	·887	·895	·911	·922	·945	·949	·942	·917	·887	·850
27	·885	·871	·864	·861	·869	·879	·901	·917	·939	·949	·937	·909	·885	·855
28	·878	·866	·869	·870	·869	·870	·889	·894	·924	·924	·921	·894	·867	·842
29	·866	·855	·849	·838	·842	·850	·882	·900	·925	·926	·922	·898	·873	·842
30	·886	·868	·872	·865	·872	·882	·905	·918	·946	·958	·954	·930	·909	·900
31	·900	·886	·880	·873	·879	·884	·912	·922	·961	·976	·978	·954	·936	·908
Mean	29·928	29·915	29·908	29·902	29·910	29·916	29·940	29·957	29·985	**29·990**	29·985	29·958	29·929	29·899
Variation	+·001	—·012	—·019	—·025	—·017	—·011	+·013	+·030	+·058	**+·063**	+·058	+·031	+·002	—·028

FEBRUARY.

1	29·956	29·936	29·934	29·933	29·945	29·955	29·984	30·000	30·023	30·026	30·028	30·004	29·980	29·963
2	·964	·953	·947	·936	·946	·943	·963	29·975	·008	·018	·020	29·990	·972	·930
3	·929	·909	·910	·900	·905	·911	·932	·953	29·982	29·988	29·982	·949	·916	·896
4	·906	·888	·872	·866	·872	·883	·918	·936	·962	·960	·959	·939	·909	·878
5	·917	·908	·897	·893	·897	·902	·928	·954	·987	30·000	·997	·970	·934	·905
6	·942	·921	·911	·904	·919	·933	·973	·997	30·013	·020	30·017	·993	·962	·924
7	·923	·911	·901	·900	·901	·909	·938	·954	29·976	29·985	29·989	·961	·930	·912
8	·929	·909	·903	·900	·896	·902	·932	·950	·964	·970	·976	·954	·938	·904
9	·950	·926	·914	·906	·919	·923	·946	·965	30·001	30·012	30·017	·992	·974	·963
10	·988	·970	·965	·956	·963	·968	·988	30·009	·035	·051	·036	30·009	·989	·960
11	·983	·964	·953	·937	·949	·948	·966	29·980	·020	·040	·036	·012	·991	·960
12	30·006	·992	·974	·960	·970	·979	30·006	30·023	·057	·068	·067	·046	30·020	·992
13	30·000	·986	·983	·976	·980	·983	·002	·022	·052	·058	·054	·025	·002	·986
14	·010	·991	·981	·969	·979	·991	·018	·039	·067	·073	·074	·055	·033	·994
15	·025	30·003	30·001	·991	·998	30·011	·035	·055	·095	**·111**	·106	·077	·036	30·000
16	29·996	29·975	29·963	·953	·958	29·972	29·998	·014	·037	·047	·044	·019	29·990	29·958
17	·959	·949	·947	·938	·939	·944	·967	29·981	·007	·019	·019	29·991	·965	·943
18	·975	·957	·945	·938	·945	·953	·975	·990	·013	·019	·017	·987	·971	·939
19	·988	·970	·956	·946	·958	·968	·988	30·004	·023	·030	·030	30·007	·976	·967
20	·985	·975	·965	·950	·959	·967	·994	·013	·043	·046	·041	·014	·988	·960
21	·975	·957	·953	·947	·953	·959	·992	·011	·035	·040	·037	·013	·995	·975
22	·962	·950	·932	·918	·937	·941	·970	29·985	·012	·012	·008	29·980	·964	·934
23	·937	·921	·907	·903	·910	·926	·955	·974	29·999	·007	·005	·983	·958	·936
24	·937	·917	·909	·903	·906	·903	·928	·945	·967	29·969	29·960	·920	·893	·848
25	·902	·895	·891	·887	·895	·903	·927	·943	·977	·987	·986	·964	·947	·917
26	·903	·879	·877	·871	·873	·880	·907	·921	·942	·951	·944	·918	·894	·855
27	·879	·858	·854	·839	·850	·855	·883	·901	·928	·934	·933	·913	·893	·863
28	·883	·860	·865	·864	·871	·879	·904	·916	·941	·945	·942	·921	·905	·877
Mean	29·954	29·937	29·929	29·921	29·928	29·935	29·961	29·979	30·006	**30·014**	30·012	29 986	29·962	29·934
Variation	+·004	—·013	—·021	—·029	—·022	—·015	+·011	+·029	+·056	**+·064**	+·062	+·036	+·012	—·016

JANUARY. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)

(IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.	Maximum.		Minimum.		Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
29·862	29·853	29·861	29·866	29·881	29·897	29·920	29·915	29·916	29·906	29·904	9 20	29·971	16 20	29·851	1
·858	·847	·855	·855	·872	·891	·919	·919	·925	·907	·902	9 10	·975	16 40	·851	2
·843	·827	·840	·849	·874	·894	·918	·911	·916	·905	·894	9 10	·967	16 0	·823	3
·867	·852	·863	·864	·884	·901	·924	·932	·929	·915	·910	9 5	·984	16 0	·848	4
·883	·884	·892	·896	·918	·933	·948	·953	·956	·940	·925	8 58	·989	15 20	·879	5
·887	·881	·891	·901	·924	·937	·960	·963	·964	·954	·936	8 45	·991	16 20	·877	6
·896	·885	·898	·910	·937	·951	·975	·976	·970	·948	·947	8 50	30·003	15 37	·881	7
·906	·892	·901	911	·933	·948	·965	·960	·956	·943	·946	9 35	·019	15 55	·885	8
·895	·883	·894	·905	·930	·947	·973	·968	·969	·958	·944	8 55	·022	15 25	·878	9
·948	·940	·955	·959	·990	30·008	30·034	30·050	30·040	30·030	·992	9 0	·070	3 15	·932	10
·965	960	·960	·970	30·001	·011	·027	·025	·021	·011	**30·018**	9 15	**·085**	15 30	·955	11
·907	·886	·892	·900	29·918	29·928	29·944	29·946	29·936	29·922	29·960	8 55	·042	15 50	·880	12
·851	·864	·861	·875	·901	·907	·929	·926	·920	·913	·908	9 45	29·971	15 45	·843	13
·934	·934	·942	·950	·969	·985	30·013	30·016	30·016	·998	·963	9 10	30·024	15 5	·919	14
·908	·893	·903	·913	·921	·935	29·943	29·941	29·946	·926	·962	8 40	·045	15 40	·892	15
·895	·889	897	·898	·922	·926	·947	·951	·950	·936	·923	9 5	29·978	4 58	·878	16
·906	·903	·910	·909	·920	·920	·936	·937	·945	·930	·941	9 40	30.016	15 20	·900	17
·892	·880	·895	·899	·922	·949	·959	·956	·957	·940	·935	9 58	·002	16 32	·876	18
·895	·883	·893	·894	·915	·920	·947	·957	·956	·943	·939	9 15	·018	15 45	·882	19
·907	·910	·924	·929	·957	·970	·984	·985	·987	·981	·954	9 15	·035	14 37	·903	20
·872	·855	·858	·862	·880	·902	·935	·947	·948	·927	·936	8 37	·011	16 7	·850	21
·864	·861	·876	·897	·921	·939	·960	·966	·965	·956	·925	9 10	29·998	14 37	·854	22
·861	·848	·865	·874	·903	·924	·962	·969	·960	·941	·934	9 5	30·012	15 40	·844	23
·882	·873	·882	·894	·914	·924	·946	·942	·936	·922	·907	9 45	29·958	3 45	·854	24
·841	·829	·838	·840	·860	·868	·906	·914	·919	·920	·904	9 55	·986	16 25	·822	25
·829	·820	·831	·829	·849	·862	·888	·889	·903	·891	·887	9 10	·959	16 38	·815	26
·838	·821	·823	·831	·853	·861	·885	·894	·891	·878	·879	9 5	·955	15 40	·817	27
·820	**·812**	·827	·821	·832	·848	·862	·882	·882	·879	**·868**	9 3	·926	16 18	**·810**	28
·829	·825	·829	·832	·849	·866	·882	·897	·896	·882	·869	9 5	·928	15 45	·824	29
·871	·854	·860	·861	·884	·900	·919	·919	·920	·910	·898	9 12	·964	16 40	·850	30
·899	·895	·909	·910	·920	·933	·956	·966	·973	·960	·924	9 20	·932	4 22	·872	31
29·881	**29·872**	29·881	29·887	29·908	29·922	29·944	29·947	29·947	29·935	29·927					Mean.
—·046	**—·055**	—·046	—·040	—·019	—·005	+·017	+·020	+·020	+·008						Variation.

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29·945	29·930	29·946	29·938	29·948	29·952	29·976	29.979	29·980	29·962	29·968	9 20	30·032	15 40	29·926	1
·909	·891	·894	·894	·918	·936	·957	·955	·948	·933	·950	9 25	·022	16 25	·886	2
·864	·860	·860	·864	·885	·896	·915	·919	·923	·916	·915	9 12	29·992	16 25	·858	3
·856	·852	·864	·869	·899	·907	·930	·930	·931	·919	·905	8 40	·970	15 27	·850	4
·881	·867	·875	·885	·910	·929	·950	·954	·962	·948	·927	9 25	30·003	16 5	·865	5
·903	·885	·885	·899	·919	·922	·939	·939	·943	·932	·941	9 25	·023	16 32	·881	6
·896	·883	·888	·895	·917	·934	·955	·955	·954	·939	·929	9 20	29·991	16 12	·879	7
·897	·892	·900	·906	·924	·944	·974	·973	·972	·959	·932	10 0	·984	15 40	·890	8
·946	·934	·945	·950	·969	·980	·997	30·000	30·002	·992	·963	9 30	30·024	3 45	·902	9
·948	·936	·939	·936	·956	·969	·993	·002	·003	·993	·982	9 20	·054	15 20	·930	10
·939	·917	·928	·937	·948	·967	·997	·004	·010	30·008	·975	9 25	·041	15 25	**·913**	11
·973	·958	·966	·965	·980	·992	30·014	·019	·025	·011	30·003	10 5	·070	16 0	·954	12
·962	·944	·954	·956	·983	·991	·018	·030	·032	·007	29·999	9 0	·060	15 42	·936	13
·971	·954	·962	·969	·991	30·007	034	·034	·032	·027	30·011	9 50	·079	16 12	·949	14
·962	·941	·953	·959	·977	29·991	·018	·016	·015	·001	**·016**	9 27	**·117**	16 5	·939	15
·939	·919	·927	·928	·943	·954	29·977	29·976	29·978	29·963	29·976	9 32	·055	15 48	·913	16
·926	·909	·915	·924	·945	·963	·987	·987	·997	·983	·963	9 35	·027	16 22	·907	17
·917	·908	·909	·915	·942	·964	·988	·993	·997	·984	·964	9 22	·025	16 37	·905	18
·935	·925	·934	·936	·955	·958	·986	·986	·994	·986	·975	9 28	·032	15 50	·920	19
·944	·931	·931	·935	·948	·963	·988	·991	·996	·981	·980	9 5	·053	16 37	·929	20
·944	·926	·940	·930	·946	·952	·975	·968	·975	·958	·973	9 22	·043	15 42	·925	21
·918	·897	·904	·903	·920	·928	·943	·943	·949	·944	·948	8 58	·016	16 5	.892	22
·910	·895	·896	·893	·910	·918	·948	·947	·947	·941	·939	9 42	·013	16 0	·891	23
·826	·818	·823	·829	·849	·871	·895	·913	·918	·908	·898	9 0	29·974	15 2	·812	24
·895	·870	·873	·871	·887	·892	·915	·917	919	·908	·915	9 20	·991	16 0	·865	25
·839	·826	·833	·828	·846	·859	·883	·888	·895	·891	·883	9 20	·953	17 25	·821	26
·839	·815	**·813**	·816	·841	·859	·887	·905	·907	·892	**·873**	9 25	·943	16 50	**·811**	27
·857	·842	·851	·851	·868	·884	·910	·902	·896	·879	·888	9 7	·954	15 28	·836	28
29·912	**29·897**	29·904	29·906	29·926	29·939	29·962	29·965	29·968	29·956	29·950					Mean.
—·038	**—·053**	—·046	—·044	—·024	—·011	+·012	+·015	+·018	+·006						Variation.

MARCH. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)

(IN INCHES OF MERCURY AT 32° F.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	29·876	29·853	29·844	29·837	29·839	29·848	29·879	29·902	29·930	29·929	29·929	29·906	29·881	29·866
2	·869	·856	·844	·838	·837	·855	·885	·894	·926	·931	·926	·905	·877	·847
3	·859	·845	·832	·825	·835	·844	·870	·891	·915	·916	·908	·878	·847	·823
4	·839	·812	·816	·806	·817	·818	·844	·855	·883	·881	·879	·854	·842	·810
5	·798	·781	·781	·777	·792	·799	·825	·849	·874	·881	·873	·840	·810	·792
6	·806	·788	·788	·792	·800	·812	·837	·855	·885	·894	·897	·872	·850	·812
7	·829	·817	·812	·804	·814	·829	·853	·866	·889	·890	·886	·863	·841	·832
8	·840	·819	·824	·823	·829	·843	·867	·880	·907	·914	·919	·895	·879	·847
9	·870	·848	·842	·837	·851	·864	·902	·916	·929	·926	·923	·891	·863	·825
10	·853	·840	·830	·826	·847	·859	·894	·912	·941	·942	·935	·909	·865	·839
11	·855	·839	·818	·806	·819	·832	·868	·887	·911	·916	·914	·884	·865	·844
12	·864	·847	·844	·832	·837	·848	·876	·889	·909	·911	·905	·888	·870	·841
13	·881	·864	·861	·848	·853	·868	·890	·907	·938	·943	·940	·908	·880	·856
14	·866	·854	·852	·855	·872	·882	·909	·926	·946	·949	·953	·927	·901	·869
15	·855	·836	·837	·832	·845	·858	·889	·902	·924	·924	·923	·901	·876	·863
16	·848	·831	·828	·814	·830	·837	·864	·876	·904	·904	·909	·884	·862	·838
17	·892	·881	·883	·872	·880	·892	·917	·924	·950	·952	·949	·921	·896	·860
18	·903	·888	·877	·871	·884	·895	·919	·935	·951	·947	·936	·913	·881	·845
19	·823	·797	·788	·782	·792	·802	·821	·833	·858	·852	·843	·821	·789	·751
20	·778	·769	·771	·770	·775	·778	·805	·822	·837	·839	·831	·815	·794	·767
21	·819	·809	·805	·798	·806	·811	·835	·839	·863	·867	·871	·857	·839	·819
22	·883	·872	·865	·862	·877	·885	·913	·930	·957	·959	**·970**	·955	·923	·893
23	·859	·851	·831	·831	·840	·851	·861	·878	·903	·903	·887	·869	·839	·807
24	·765	·747	·739	·723	·730	·731	·759	·773	·800	·801	·803	·783	·761	·741
25	·760	·748	·740	·740	·750	·763	·800	·818	·848	·859	·844	·832	·817	·799
26	·814	·798	·794	·794	·810	·822	·852	·872	·890	·890	·890	·864	·836	·816
27	·846	·840	·831	·830	·844	·858	·894	·911	·930	·929	·921	·898	·877	·836
28	·853	·842	·832	·836	·840	·852	·884	·897	·924	·927	·918	·900	·879	·846
29	·861	·849	·836	·831	·843	·854	·881	·896	·920	·922	·924	·897	·872	·846
30	·868	·856	·846	·841	·848	·863	·884	·895	·916	·910	·915	·893	·866	·844
31	·852	·836	·830	·823	·836	·845	·869	·881	·902	·897	·888	·874	·841	·808
Mean.	29·845	29·829	29·823	29·818	29·828	29·839	29·866	29·881	29·905	**29·907**	29·904	29·881	29·855	29·828
Variation	+·002	—·014	—·020	—·025	—·015	—·004	+·023	+·038	+·062	**+·064**	+·061	+·038	+·012	—·015

APRIL.

1	29·824	29·806	29·799	29·794	29·802	29·813	29·835	29·863	29·894	29·895	29·897	29·892	29·880	29·854
2	·870	·866	·860	·949	·866	·875	·904	·913	**·934**	·932	·924	·903	·882	·857
3	·850	·841	·830	·828	·836	·843	·859	·867	·894	·891	·879	·869	·852	·825
4	·856	·851	·846	·842	·858	·864	·892	·908	·924	·920	·908	·892	·860	·840
5	·853	·839	·828	·810	·812	·820	·852	·870	·890	·893	·894	·870	·854	·818
6	·824	·807	·798	·792	·799	·798	·816	·834	·857	·848	·848	·828	·814	·784
7	·807	·794	·802	·796	·808	·817	·850	·866	·890	·896	·884	·867	·852	·820
8	·862	·853	·839	·834	·835	·839	·858	·869	·890	·887	·891	·879	·859	·841
9	·871	·856	·845	·832	·846	·856	·880	·892	·912	·907	·902	·886	·868	·841
10	·855	·833	·825	·819	·834	·839	·864	·880	·896	·895	·890	·870	·848	·818
11	·798	·785	·779	·775	·790	·797	·821	·840	·861	·858	·849	·837	·821	·788
12	·828	·812	·802	·794	·810	·821	·844	·866	·886	·884	·879	·859	·830	·792
13	·802	·783	·776	·772	·787	·796	·813	·830	·852	·850	·841	·813	·793	·755
14	·771	·757	·745	·735	·742	·754	·780	·794	·815	·822	·840	·830	·816	·796
15	·812	·827	·820	·805	·810	·819	·838	·855	·883	·899	·897	·883	·873	·853
16	·810	·794	·779	·774	·779	·788	·796	·801	·820	·815	·814	·801	·781	·764
17	·780	·759	·750	·741	·749	·753	·779	·796	·812	·814	·809	·786	·772	·746
18	·742	·714	·703	·701	·713	·723	·740	·759	·779	·778	·779	·768	·748	·725
19	·722	·709	·710	·702	·721	·726	·758	·776	·802	·799	·792	·774	·755	·723
20	·770	·762	·750	·747	·761	·772	·788	·807	·826	·826	·815	·804	·783	·754
21	·794	·792	·788	·788	·802	·809	·843	·866	·883	·883	·883	·865	·838	·804
22	·778	·759	·758	·754	·760	·760	·786	·798	·821	·813	·803	·784	·756	·713
23	·708	·696	·691	·684	·699	·711	·737	·755	·780	·776	·773	·757	·735	·699
24	·720	·712	·706	·701	·714	·718	·755	·776	·799	·797	·792	·771	·747	·712
25	·730	·709	·703	·695	·710	·717	·743	·765	·790	·795	·800	·789	·781	·762
26	·765	·738	·734	·725	·734	·741	·761	·778	·790	·787	·789	·770	·751	·729
27	·730	·720	·723	·718	·730	·737	·755	·769	·790	·792	·788	·771	·756	·721
28	·720	·705	·705	·699	·717	·727	·753	·773	·790	·788	·787	·770	·749	·722
29	·728	·709	·706	·695	·710	·722	·745	·758	·775	·771	·759	·740	·732	·700
30	·754	·727	·719	·714	·742	·750	·786	·809	·838	·850	·864	·851	·839	·810
Mean.	29·792	29·777	29·771	29·764	29·776	29·783	29·808	29·824	**29·846**	29·845	29·842	29·826	29·807	29·779
Variation	+·002	—·013	—·019	—·026	—·014	—·007	+·018	+·034	**+·056**	+·055	+·052	+·036	+·017	—·011

MARCH. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)

(IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.	Maximum.		Minimum.		Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
29·836	29·816	29·818	29 819	29·837	29·848	29·872	29·868	29·872	29·872	29.866	9 35	29·935	16 50	29·813	1
·820	·803	·801	·802	·817	·841	·870	·870	·877	·868	·861	9 55	·933	16 30	·797	2
·799	·770	·776	·775	·803	·818	·852	·850	·853	·839	·843	9 40	·921	16 2	·765	3
·793	·768	·761	·756	·771	·784	·807	·813	·815	·803	·818	9 5	·889	17 20	·757	4
·761	·741	·741	·748	·766	·786	·807	·817	·826	·819	·803	9 30	·885	16 5	·733	5
·786	·761	·762	·767	·789	·802	·828	·835	·840	·833	·820	10 10	·896	16 30	·756	6
·800	·785	·794	·800	·824	·834	·862	·868	·873	·858	·838	9 12	·892	15 25	·780	7
·828	·807	·805	·811	·836	·860	·885	·890	·894	·878	·857	9 30	·921	16 15	·801	8
·796	·782	·792	·794	·816	·836	·861	·865	·868	·861	·857	9 0	·930	15 20	·780	9
·812	·798	·796	·800	·821	·831	·861	·868	·870	·866	·859	9 0	·944	16 5	·794	10
·822	·797	·798	·802	·825	·842	·867	·870	·876	·867	·851	9 0	·918	16 0	·788	11
·821	·798	·798	·801	·818	·836	·869	·880	·886	·884	·856	9 7	·914	16 15	·794	12
·832	·814	·832	·839	·859	·869	·884	·886	·885	·871	·875	9 15	·946	15 30	·812	13
·840	·820	·821	·822	·836	·849	·873	·876	·880	·866	·877	9 40	·958	16 22	·814	14
·835	·822	·828	·830	·841	·846	·864	·866	·874	·858	·864	9 25	·926	15 30	·820	15
·829	·821	·834	·839	·863	·882	·900	·906	·910	·900	·863	9 20	·912	3 50	·812	16
·844	·830	·838	·843	·866	·882	·912	·916	·924	·908	**·893**	9 32	·954	15 10	·828	17
·823	·798	·794	·794	·813	·824	·856	·850	·847	·828	·870	9 10	·953	16 45	·791	18
·714	·695	·699	·709	·745	·759	·789	·791	·797	·789	·785	9 5	·859	16 0	·693	19
·747	·739	·747	·758	·784	·803	·825	·827	·835	·823	·793	9 10	·840	15 5	·733	20
·797	·798	·797	·809	·841	·858	·877	·896	·908	·902	·838	22 5	·909	15 5	·793	21
·869	·853	·845	·845	·863	·869	·883	·890	·891	·875	·893	10 10	**·970**	16 30	·843	22
·780	·756	·752	·739	·764	·769	·784	·788	·785	·773	·821	9 10	·904	17 20	·737	23
·720	·701	·695	**·690**	·713	·726	·759	·771	·773	·769	**·749**	9 5	·804	17 8	**·689**	24
·775	·763	·750	·771	·789	·801	·827	·833	·839	·833	·796	9 10	·860	3 40	·739	25
·802	·786	·788	·788	·810	·818	·846	·853	·858	·848	·831	10 5	·892	15 50	·784	26
·813	·796	·792	·791	·801	·812	·835	·847	·856	·855	·852	9 0	·932	16 30	·784	27
·822	·808	·809	·804	·824	·836	·859	·865	·875	·870	·858	9 10	·930	15 30	·800	28
·825	·817	·816	·816	·837	·852	·877	·884	·892	·883	·864	9 30	·928	17 5	·808	29
·813	·801	·804	·813	·826	·828	·846	·855	·870	·857	·857	9 0	·918	15 40	·796	30
·782	·763	·774	·768	·792	·797	·825	·832	·835	·829	·832	9 5	·904	15 55	·756	31
29·804	**29·787**	29·789	29·792	29·813	29·826	29·850	29·856	29·861	29·851	29.843					Mean.
—·039	—·**056**	—·054	—·051	—·030	—·017	+·007	+·013	+·018	+·008						Variation.

APRIL.

29·833	29·827	29·831	29·830	29·851	29·851	29·868	29·886	29·901	29·891	29·851	22 27	29·904	3 50	29·791	1
·828	·808	·803	·803	·824	·832	·851	·860	·868	·861	**·866**	8 40	**·934**	17 0	·794	2
·801	·787	·804	·809	·833	·842	·863	·876	·876	·870	·847	8 25	·894	15 45	·785	3
·804	·793	·799	·802	·826	·840	·858	·859	·868	·856	·857	8 20	·925	15 15	·782	4
·795	·781	·786	·794	·812	·824	·842	·841	·850	·835	·836	9 40	·895	16 0	·776	5
·754	·747	·758	·760	·783	·785	·808	·816	·820	·812	·804	8 20	·858	14 55	·744	6
·799	·788	·796	·796	·816	·829	·862	·869	·872	·869	·835	9 17	·898	16 0	·786	7
·818	·798	·811	·815	·834	·840	·863	·867	·887	·877	·852	8 25	·892	15 25	·797	8
·823	·808	·817	·817	·839	·851	·874	·881	·879	·863	·860	7 55	·915	16 0	·807	9
·792	·770	·769	·763	·777	·789	·809	·820	·824	·808	·829	9 0	·898	17 50	·760	10
·759	·733	·731	·729	·747	·763	·797	·818	·835	·829	·797	8 40	·863	16 45	·728	11
·764	·743	·737	·736	·750	·761	·778	·794	·815	·804	·808	8 50	·888	17 10	·732	12
·740	·726	·728	·722	·742	·756	·776	·790	·787	·779	·784	9 7	·854	17 30	·716	13
·780	·773	·782	·779	·816	·840	·854	·846	·854	·848	·799	10 32	·846	4 5	·730	14
·827	·807	·792	·802	·822	·827	·841	·845	·839	·827	·839	9 30	·901	16 32	·787	15
·745	·724	·727	·731	·756	·761	·771	·777	·796	·791	·779	9 0	·821	16 0	·723	16
·724	·697	·694	·700	·725	·738	·752	·755	·770	·781	·758	9 45	·822	16 50	·690	17
·704	·689	·694	·699	·739	·756	·771	·772	·764	·747	·738	9 0	·781	15 55	·683	18
·699	·678	·683	·693	·722	·744	·752	·770	·788	·773	·740	9 10	·804	16 5	·672	19
·732	·718	·720	·722	·755	·769	·793	·796	·808	·798	·774	8 35	·828	16 29	·717	20
·770	·749	·745	·744	·759	·766	·786	·799	·812	·798	·807	9 35	·885	17 0	·738	21
·680	·662	·654	·650	·666	·674	·705	·718	·730	·718	·737	8 40	·822	17 0	·648	22
·685	·666	·663	·671	·688	·697	·716	·729	·735	·720	**·715**	8 45	·781	16 35	·655	23
·692	·671	·672	·675	·699	·711	·737	·751	·753	·737	·730	8 50	·800	16 50	·668	24
·753	·737	·737	·739	·756	·759	·777	·783	·789	·776	·754	10 0	·806	3 5	·692	25
·708	·690	·691	·690	·707	·711	·728	·734	·741	·730	·738	8 35	·802	17 0	·684	26
·700	·682	·677	·675	·689	·692	·716	·720	·728	·719	·729	9 25	·800	16 30	·674	27
·696	·673	·664	·659	·677	·691	·715	·735	·746	·738	·725	9 0	·792	17 0	·658	28
·677	·654	**·643**	·643	·662	·678	712	·742	·768	·759	·716	9 10	·782	17 0	**·640**	29
·787	·768	·763	·762	·781	·788	·802	·805	·809	·800	·788	9 48	·866	3 15	·704	30
29·756	**29·738**	29.739	29·740	29·762	29·772	29·793	29.802	29·810	29·800	29·790					Mean.
—·034	—·**052**	—·051	—·050	—·028	—·018	+·003	+·012	+·020	+·010						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY. (IN INCHES OF MERCURY AT 32° F.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	29·792	29·780	29·774	29·766	29·762	29·760	29·786	29·793	29·813	29·807	29·811	29·799	29·778	29·752
2	·751	·743	·738	·733	·740	·750	·766	·778	·807	·812	·818	·808	·788	·764
3	·743	·730	·714	·704	·720	·724	·746	·755	·774	·767	·768	·751	·728	·695
4	·761	·734	·724	·718	·742	·750	·772	·787	·811	·810	·805	·786	·760	·725
5	·725	·723	·733	·737	·756	·775	·815	·825	·839	·835	·827	·805	·781	·756
6	·768	·760	·752	·740	·752	·752	·767	·783	·794	·785	·775	·750	·729	·711
7	·702	·682	·687	·687	·708	·710	·739	·738	·756	·751	·742	·712	·694	·660
8	·654	·644	·635	·630	·650	·662	·685	·704	·728	·725	·718	·694	·672	·646
9	·662	·650	·633	·622	·642	·651	·676	·690	·712	·705	·697	·676	·652	·619
10	·627	·605	·601	·594	·604	·613	·641	·646	·673	·670	·663	·652	·631	·606
11	·654	·649	·633	·631	·651	·661	·687	·701	·719	·719	·717	·710	·695	·665
12	·697	·689	·679	·673	·688	·695	·727	·744	·773	·771	·773	·765	·744	·731
13	·738	·720	·711	·707	·717	·719	·751	·757	·785	·785	·797	·787	·780	·755
14	·777	·773	·757	·755	·767	·773	·804	·818	·836	·837	·841	·823	·811	·794
15	·816	·809	·807	·807	·815	·822	·846	·857	·878	·878	·882	·866	·849	·820
16	·838	·826	·824	·811	·815	·821	·861	·863	·883	·889	·894	·881	·861	·844
17	·842	·829	·824	·821	·830	·836	·856	·867	·890	·884	·880	·867	·853	·835
18	·837	·829	·827	·823	·834	·843	·871	·879	·891	·891	·886	·869	·848	·823
19	·851	·833	·832	·831	·857	·862	·892	·901	·916	·909	·898	·879	·849	·815
20	·834	·822	·822	·823	·836	·840	·863	·875	·897	·894	·890	·867	·851	·820
21	·802	·792	·798	·804	·817	·818	·846	·852	·871	·865	·862	·840	·822	·800
22	·824	·812	·814	·809	·828	·837	·864	·882	·899	·896	·896	·877	·864	·838
23	·873	·860	·846	·841	·854	·861	·894	·902	·920	·919	·910	·894	·871	·852
24	·865	·856	·855	·851	·862	·873	·902	·914	·939	·941	·938	·922	·900	·875
25	·853	·838	·832	·818	·834	·844	·866	·877	·900	·900	·902	·886	·875	·844
26	·827	·810	·811	·810	·816	·824	·854	·872	·896	·888	·876	·868	·850	·821
27	·789	·765	·759	·757	·756	·767	·796	·806	·822	·811	·808	·797	·787	·762
28	·746	·730	·725	·723	·733	·736	·763	·776	·780	·778	·768	·746	·743	·734
29	·746	·733	·736	·736	·753	·760	·778	·804	·814	·818	·814	·801	·792	·771
30	·771	·759	·758	·759	·769	·779	·799	·809	·831	·834	·836	·831	·817	·804
31	·782	·774	·768	·764	·768	·773	·788	·798	·816	·809	·804	·798	·794	·768
Mean	29·772	29·760	29·755	29·751	29·764	29·771	29·797	29·808	**29·828**	29·825	29·822	29·807	29·789	29·765
Variation	·000	—·012	—·017	—·021	—·008	—·001	+·025	+·036	**+·056**	+·053	+·050	+·035	+·017	—·007

JUNE.

1	29·773	29·748	29·736	29·730	29·735	29·738	29·763	29·774	29·781	29·780	29·772	29·759	29·744	29·732
2	·716	·704	·697	·695	·702	·715	·742	·757	·772	·772	·767	·749	·741	·720
3	·720	·710	·710	·705	·725	·734	·762	·773	·792	·798	·794	·776	·754	·735
4	·771	·752	·749	·743	·753	·750	·778	·785	·804	·804	**·805**	·790	·768	·742
5	·740	·726	·717	·710	·717	·728	·754	·762	·772	·778	·775	·762	·738	·716
6	·704	·685	·684	·676	·683	·695	·718	·724	·738	·736	·738	·717	·704	·684
7	·720	·713	·702	·698	·726	·733	·754	·765	·781	·777	·786	·768	·751	·733
8	·774	·754	·754	·736	·733	·734	·748	·742	·756	·757	·763	·754	·744	·704
9	·733	·702	·688	·681	·702	·706	·713	·723	·738	·733	·727	·712	·684	·658
10	·649	·627	·618	·599	·616	·631	·660	·674	·701	·701	·708	·708	·706	·684
11	·714	·704	·705	·704	·704	·706	·725	·732	·752	·752	·763	·752	·740	·738
12	·759	·740	·725	·716	·726	·729	·755	·774	·795	·792	·795	·782	·772	·765
13	·748	·724	·718	·713	·714	·717	·736	·740	·762	·757	·775	·763	·751	·746
14	·700	·684	·673	·659	·664	·664	·676	·688	·708	·713	·714	·703	·691	·669
15	·648	·627	·610	·601	·603	·610	·627	·643	·652	·650	·655	·647	·638	·610
16	·635	·614	·602	·582	·591	·600	·632	·639	·663	·668	·677	·670	·663	·625
17	·627	·608	·602	·602	·614	·621	·651	·652	·669	·662	·655	·640	·630	·627
18	·617	·605	·598	·595	·605	·606	·632	·640	·616	·659	·666	·656	·644	·613
19	·606	·589	·576	·563	·590	·586	·599	·610	·628	·631	·636	·614	·594	·574
20	·582	·550	·536	·536	·554	·566	·567	·564	·588	·589	·590	·580	·554	·526
21	·554	·532	·521	·506	·506	·513	·540	·547	·563	·576	·576	·551	·540	·519
22	·556	·542	·541	·540	·572	·578	·586	·603	·606	·616	·627	·612	·605	·593
23	·619	·604	·587	·570	·591	·591	·612	·631	·660	·657	·652	·649	·638	·625
24	·627	·607	·595	·578	·593	·600	·631	·637	·653	·649	·657	·646	·633	·625
25	·615	·587	·567	·549	·532	·537	·555	·558	·586	·587	·594	·580	·560	·548
26	·504	·489	·478	·470	·472	·480	·510	·519	·534	·538	·549	·541	·534	·516
27	·517	·496	·486	·484	·490	·496	·516	·524	·554	·556	·577	·587	·578	·570
28	·586	·572	·566	·556	·564	·578	·596	·604	·628	·626	·636	·630	·625	·618
29	·637	·619	·608	·597	·614	·618	·635	·636	·652	·648	·649	·633	·612	·598
30	·590	·565	·542	·532	·529	·528	·551	·565	·585	·584	·594	·588	·578	·572
Mean	29·658	29·639	29·630	29·621	29·631	29·636	29·657	29·666	29·683	29·685	**29·689**	29·677	29·664	29·646
Variation	+·009	—·010	—·019	—·028	—·018	—·013	+·008	+·017	+·034	+·036	**+·040**	+·028	+·015	—·003

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY. (IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.	Maximum.		Minimum.		Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
29·729	29·714	29·700	29·704	29·730	29·738	29·750	29·751	29·762	29·752	29·763	8 40	29·818	16 35	29·698	1
·735	·708	·702	·698	·723	·732	·752	·754	·760	·745	·754	9 25	·820	17 0	·692	2
·671	·659	·668	·668	·698	·720	·744	·756	·772	·769	·727	8 40	·776	16 0	·658	3
·700	·674	·663	·657	·672	·685	·710	·731	·744	·726	·735	9 0	·813	17 10	·651	4
·739	·719	·713	·717	·731	·739	·757	·764	·778	·774	·765	8 41	·845	16 42	·711	5
·680	·661	·657	·656	·676	·690	·718	·722	·729	·708	·730	8 14	·799	16 50	·653	6
·633	·604	·598	·598	·616	·637	·664	·678	·676	·660	·681	8 55	·757	16 42	·586	7
·616	·583	·579	·604	·645	·672	·701	·693	·704	·686	·664	9 20	·732	16 25	**·560**	8
·596	·579	·574	·590	·617	·594	·618	·630	·652	·638	·641	8 30	·714	16 32	·560	9
·595	**·564**	·574	·589	·605	·637	·669	·675	·679	·674	**·629**	22 10	·680	15 48	·561	10
·648	·629	·619	·629	·652	·671	·701	·708	·715	·701	·674	9 10	·721	16 50	·615	11
·707	·687	·683	·685	·713	·717	·733	·735	·759	·750	·722	8 55	·779	3 25	·671	12
·735	·721	·718	·715	·739	·753	·775	·781	·789	·785	·751	9 27	·798	2 30	·705	13
·767	·750	·746	·746	·769	·780	·804	·811	·831	·823	·791	10 15	·843	16 55	·741	14
·798	·781	·782	·787	·805	·813	·832	·843	·854	·847	·829	10 14	·883	16 42	·779	15
·822	·808	·809	·803	·817	·815	·829	·840	·853	·846	·840	9 46	·901	15 40	·802	16
·821	·806	805	·810	·824	·826	·844	·846	·847	·842	·841	8 45	·892	16 0	·800	17
·806	·788	·797	·800	·812	·827	·859	·863	·872	·860	·843	9 30	·893	15 50	·785	18
·786	·765	·760	·768	·793	·803	·829	·841	·851	·843	·840	8 25	·917	16 35	·753	19
·788	·766	·762	·754	·776	·777	·800	·803	·825	·815	·825	8 28	·898	17 8	·751	20
·774	·750	·746	·745	·766	·780	·818	·834	·844	·834	·812	8 55	·872	16 45	·736	21
·815	·805	·797	·796	·814	·810	·870	·870	·884	·884	·846	8 45	·900	18 8	·792	22
·834	·806	·814	·825	·852	·862	·886	·892	·892	·878	·868	8 52	·920	16 0	·800	23
·849	·820	·815	·811	·828	·837	·852	·853	·871	·864	**·871**	9 7	**·943**	17 12	·810	24
·824	·796	·788	·790	·802	·812	·833	·849	·855	·852	·845	8 55	·908	16 30	·776	25
·797	·778	·765	·759	·774	·779	·798	·802	·809	·799	·820	8 25	·897	17 40	·758	26
·739	·717	·721	·719	·729	·735	·762	·770	·777	·761	·767	8 0	·823	16 30	·713	27
·714	·689	·686	·689	·710	·742	·760	·778	·774	·752	·741	7 32	·782	16 50	·678	28
·752	·731	·728	·725	·744	·754	·774	·779	·780	·774	·767	9 45	·819	17 4	·724	29
·785	·770	·775	·771	·781	·787	·811	·807	·813	·789	·794	9 10	·837	4 20	·757	30
·744	·727	·727	·727	·751	·763	·776	·778	·786	·778	·773	8 10	·817	16 0	·720	31
29·742	29·721	**29·718**	29·720	29·741	29·752	29·775	29·782	29·792	29·781	29·772					Mean.
—·030	—·051	**—·054**	—·052	—·031	—·020	+·003	+·010	+·020	+·009						Variation.

JUNE.

29·713	29·695	29·686	29·684	29·707	29·715	29·729	29·729	29·740	29·726	29·737	7 30	29·782	16 47	29·683	1
·699	·682	·682	·676	·693	·705	·724	·735	·753	·737	·722	8 10	·774	17 25	·675	2
·718	·693	·690	·696	·714	·720	·758	·764	·784	·774	·742	8 18	·799	16 21	·686	3
·728	·709	·705	·700	·715	·726	·742	·747	·752	·744	·753	8 31	**·807**	3 42	·642	4
·695	·672	·671	·671	·688	·692	·710	·713	·724	·712	·723	8 55	·779	3 20	·608	5
·674	·648	·638	·633	·666	·682	·711	·715	·729	·722	·696	8 40	·742	17 15	·630	6
·704	·665	·666	·668	·713	·732	·748	·763	·783	·782	·735	23 35	·794	16 37	·662	7
·684	·687	·688	·695	·718	·721	·738	·743	·756	·756	·735	0 0	·776	14 26	·674	8
·636	·622	·622	·615	·631	·642	·658	·666	·690	·668	·681	7 51	·740	16 26	·614	9
·672	·656	·646	·644	·665	·684	·710	·719	·730	·722	·672	21 52	·750	3 52	·642	10
·725	·706	·710	·713	·741	·753	·760	·768	·775	·761	·733	10 12	·780	15 45	·702	11
·763	·748	·755	·750	·762	·756	·773	·771	·773	·763	**·760**	8 32	·796	2 50	·712	12
·739	·711	·699	·685	·703	·713	·735	·730	·730	·713	·730	10 26	·776	17 45	·684	13
·651	·624	·616	·621	·638	·642	·665	·667	·677	·660	·669	9 52	·716	16 40	·608	14
·603	·591	·587	·594	·610	·614	·634	·649	·664	·654	·626	21 10	·665	16 31	·578	15
·605	·582	·571	·584	·605	·608	·646	·652	·668	·653	·626	9 40	·678	16 40	·562	16
·596	·568	**·576**	·589	·620	·629	·636	·648	·648	·630	·625	8 15	·670	15 49	·562	17
·589	·564	**·553**	·560	·593	·611	·632	·631	·625	·610	·613	9 47	·666	16 23	·546	18
·552	·533	·517	·521	·554	·567	·593	·600	·614	·602	·585	9 37	·637	16 42	·513	19
·513	·473	·473	·480	·520	·541	·571	·574	·574	·569	·549	10 10	·593	16 54	·465	20
·501	·491	·504	·504	·531	·542	·576	·581	·602	·579	·540	22 30	·605	15 40	·483	21
·584	·567	·555	·558	·588	·605	·621	·623	·635	·623	·589	22 20	·637	3 11	·537	22
·604	·590	·589	·589	·619	·622	·655	·651	·655	·648	·621	9 0	·676	4 4	·564	23
·616	·604	·599	·596	·614	·617	·636	·646	·649	·634	·623	10 0	·658	4 0	·576	24
·514	·486	**·470**	·475	·494	·505	·525	·519	·518	·518	·541	24 0	·644	16 58	**·456**	25
·502	·486	·484	·490	·509	·518	·531	·536	·548	·539	**·512**	9 48	·550	3 48	·468	26
·550	·535	·539	·546	·565	·575	·594	·591	·602	·596	·547	22 12	·606	3 45	·482	27
·591	·573	·567	·573	·621	·645	·652	·653	·668	·659	·608	22 18	·672	4 11	·554	28
·588	·576	·572	·584	·580	·604	·607	·609	·620	·610	·613	7 50	·654	16 45	·570	29
·563	·551	·530	·531	·548	·559	·583	·584	·605	·606	·565	23 25	·608	5 0	·526	30
29·629	29·610	**29·605**	29·607	29·631	29·641	29·662	29·666	29·676	29·666	29·649					Mean.
—·020	—·039	**—·044**	—·042	—·018	—·008	+·013	+·017	+·027	+·017						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY. (IN INCHES OF MERCURY AT 32°F.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	29·593	29·588	29·580	29·568	29·573	29·582	29·607	29·620	29·646	29·660	29·670	29·664	29·669	29·660
2	·695	·675	·661	·653	·651	·660	·688	·696	·711	·710	·710	·707	·699	·678
3	·687	·665	·646	·636	·642	·643	·665	·678	·690	·690	·691	·680	·669	·676
4	·624	·594	·587	·575	·583	·590	·623	·642	·675	·678	·680	·671	·666	·656
5	·688	·671	·657	·650	·655	·661	·686	·695	·714	·718	·723	·717	·701	·687
6	·703	·685	·675	·665	·677	·671	·696	·701	·728	·730	·737	·724	·720	·707
7	·695	·684	·670	·665	·670	·674	·697	·704	·719	·722	·724	·720	·712	·695
8	·695	·678	·673	·667	·683	·683	·709	·718	·737	·745	·741	·730	·730	·713
9	·707	·693	·679	·669	·675	·680	·706	·719	·727	·728	·731	·727	·716	·703
10	·684	·663	·657	·648	·659	·659	·674	·681	·694	·695	·701	·692	·681	·672
11	·696	·678	·663	·658	·678	·693	·721	·730	·743	·744	·759	·757	·750	·743
12	·756	·740	·739	·732	·747	·747	·772	·776	·803	·805	·803	·791	·779	·766
13	·764	·746	·735	·728	·734	·740	·756	·770	·787	·784	·780	·770	·762	·746
14	·742	·723	·712	·708	·713	·712	·728	·741	·750	·748	·755	·749	·745	·735
15	·728	·709	·696	·687	·704	·699	·724	·725	·744	·744	·747	·737	·733	·734
16	·730	·711	·701	·687	·699	·699	·727	·734	·753	·759	·765	·757	·755	·741
17	·717	·697	·691	·681	·691	·698	·713	·719	·745	·745	·737	·725	·715	·705
18	·697	·675	·677	·667	·672	·679	·704	·709	·731	·727	·730	·723	·722	·712
19	·719	·704	·702	·701	·707	·715	·737	·746	·752	·751	·757	·746	·729	·725
20	·726	·706	·690	·684	·691	·696	·716	·720	·736	·734	·733	·720	·710	·693
21	·672	·646	·630	·617	·624	·628	·654	·662	·682	·674	·677	·656	·647	·640
22	·612	·596	·587	·575	·579	·579	·596	·599	·616	·616	·622	·610	·603	·597
23	·593	·589	·577	·567	·575	·583	·598	·613	·634	·639	·648	·642	·635	·615
24	·668	·656	·656	·650	·664	·670	·704	·715	·741	·742	·748	·740	·737	·726
25	·746	·730	·727	·719	·729	·741	·758	·766	·779	·774	·778	·777	·773	·755
26	·755	·729	·721	·713	·723	·725	·747	·752	·772	·765	·775	·762	·758	·745
27	·751	·732	·720	·706	·706	·709	·733	·740	·760	·763	·772	·764	·754	·731
28	·745	·738	·728	·722	·740	·748	·773	·784	·800	·796	**·809**	·802	·794	·778
29	·779	·755	·745	·733	·737	·739	·759	·759	·781	·779	·773	·755	·747	·733
30	·705	·679	·672	·657	·663	·667	·688	·695	·713	·715	·716	·700	·685	·666
31	·672	·652	·651	·642	·647	·651	·673	·680	·699	·702	·701	·689	·672	·645
Mean	29·701	29·683	29·674	**29·665**	29·674	29·678	29·701	29·709	29·728	29·728	**29·732**	29·723	29·715	29·703
Variation	+·002	—·016	—·025	**—·034**	—·025	—·021	+ 002	+·010	+·029	+·029	**+·033**	+·024	+·016	—·004

AUGUST.

1	29·627	29·605	29·595	29·583	29·589	29·595	29·623	29·633	29·655	29·657	29·657	29·653	29·639	29·631
2	·647	·638	·625	·623	·625	·627	·649	·656	·683	·679	·685	·677	·672	·644
3	·642	·624	·621	·613	·628	·633	·659	·666	·686	·681	·692	·680	·680	·661
4	·658	·636	·627	·613	·622	·619	·643	·655	·674	·666	·668	·653	·641	·631
5	·620	·595	·577	**·560**	·573	·576	·596	·601	·616	·612	·627	·615	·610	·591
6	·575	·546	·547	·533	·547	·551	·591	·608	·637	·637	·646	·638	·625	·618
7	·667	·653	·656	·649	·664	·671	·702	·716	·743	·745	·755	·743	·741	·724
8	·751	·729	·713	·701	·719	·719	**·743**	·748	·779	·788	·803	·795	·787	·780
9	·793	·765	·758	·742	·751	·751	·779	·784	·803	·800	·811	·796	·796	·776
10	·790	·760	·746	·738	·750	·748	·766	·778	·794	·797	·803	·798	·790	·773
11	·758	·735	·727	·716	·727	·729	·756	·764	·795	·793	·801	·794	·796	·777
12	·781	·755	·751	·742	·755	·752	·768	·773	·804	·805	·807	·798	·793	·774
13	·742	·721	·718	·710	·716	·716	·743	·745	·765	·761	·772	·754	·750	·731
14	·743	·725	·716	·709	·725	·727	·752	·760	·780	·784	·788	·777	·770	·754
15	·782	·765	·757	·748	·767	·773	·796	·803	·831	·833	·841	·829	·823	·806
16	·807	·779	·761	·748	·760	·762	·784	·798	·821	·817	·818	·797	·793	·784
17	·768	·742	·738	·728	·740	·740	·758	·764	·788	·790	·792	·776	·767	·740
18	·726	·702	·699	·682	·688	·685	·702	·710	·738	·740	·749	·732	·725	·711
19	·731	·714	·706	·704	·718	·722	·744	·752	·776	·782	·788	·778	·770	·758
20	·780	·764	·760	·758	·765	·766	·798	·802	·826	·829	·832	·811	·800	·791
21	·776	·752	·747	·740	·754	·761	·774	·776	·800	·798	·810	·798	·790	·766
22	·734	·713	·698	·691	·699	·701	·725	·729	·747	·743	·755	·739	·728	·717
23	·738	·719	·720	·711	·722	·721	·752	·754	·776	·776	·785	·771	·766	·746
24	·761	·736	·726	·715	·724	·726	·752	·763	·787	·796	·809	·801	·796	·772
25	·789	·764	·756	·746	·757	·757	·775	·786	·804	·801	·801	·788	·777	·755
26	·734	·722	·725	·716	·729	·728	·751	·766	·791	·790	·794	·786	·775	·758
27	·745	·736	·731	·721	·733	·731	·751	·757	·784	·781	·785	·770	·760	·741
28	·758	·740	·735	·724	·728	·733	·759	·770	·792	·792	·796	·793	·781	·760
29	·809	·793	·780	·768	·781	·785	·809	·819	·845	·852	·853	·846	·832	·811
30	·814	·792	·781	·772	·781	·780	·803	·813	·844	·840	·847	·834	·820	·800
31	·807	·793	·786	·777	·792	·795	·816	·829	·849	·853	**·861**	·849	·826	·795
Mean	29·737	29·717	29·709	**29·699**	29·711	29·712	29·736	29·744	29·768	29·768	**29·775**	29·764	29·755	29·738
Variation	—·001	—·021	—·029	**—·039**	—·027	—·026	—·002	+·006	+·030	+·030	**+·037**	+·026	+·017	·000

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY. (IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.	Maximum.		Minimum.		Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
29·646	29·629	29·633	29·636	29·658	29·676	29·690	29·699	29·718	29·711	29·641	22 26	29·720	3 55	29·558	1
·662	·640	·638	·639	·659	·671	·690	·701	·713	·705	·680	22 31	·714	17 2	·631	2
·660	·638	·632	·634	·649	·649	·660	·656	·661	·650	·660	9 25	·693	16 40	·623	3
·644	·631	·637	·643	·672	·685	·703	·703	·706	·699	·649	21 42	·707	3 37	·566	4
·675	·658	·657	·657	·681	·691	·712	·713	·728	·715	·688	22 20	·729	2 32	·639	5
·693	·672	·672	·673	·684	·694	·710	·712	·717	·711	·698	9 0	·738	2 50	·663	6
·683	·666	·674	·676	·695	·700	·714	·714	·719	·709	·696	9 40	·725	2 7	·657	7
·699	·683	·687	·685	·702	·706	·714	·719	·727	·720	·706	10 0	·746	3 5	·662	8
·696	·679	·677	·674	·689	·689	·700	·696	·707	·700	·699	21 52	·761	4 0	·657	9
·664	·660	·659	·655	·675	·682	·702	·705	·714	·699	·678	22 0	·716	3 47	·643	10
·736	·721	·721	·716	·738	·737	·758	·758	·768	·761	·726	22 0	·769	3 20	·651	11
·763	·753	·749	·746	·757	·760	·770	·774	·787	·775	·766	9 10	·807	4 0	·731	12
·723	·711	·710	·705	·716	·719	·742	·752	·764	·753	·746	8 42	·788	16 22	·702	13
·718	·695	·685	·683	·705	·713	·724	·731	·744	·739	·725	22 50	·788	16 40	·674	14
·714	·693	·686	·680	·698	·705	·725	·733	·751	·739	·718	22 45	·753	3 38	·679	15
·725	·706	·698	·696	·716	·725	·737	·735	·738	·723	·726	10 18	·769	3 54	·629	16
·691	·673	·659	·654	·675	·685	·711	·720	·725	·705	·703	9 50	·748	4 6	·623	17
·701	·684	·680	·680	·705	·715	·731	·739	·744	·727	·705	22 0	·755	3 50	·611	18
·711	·695	·688	·686	·713	·722	·743	·748	·757	·741	·725	9 40	·773	17 1	·675	19
·686	·662	·660	·656	·666	·666	·677	·678	·683	·670	·694	8 42	·750	16 45	·654	20
·616	·596	·593	·588	·615	·618	·633	·636	·638	·625	·636	21 22	·680	16 55	·584	21
·579	·558	·563	·569	·595	·605	·622	·619	·619	·607	·597	20 40	·687	15 42	·557	22
·609	·597	·590	·594	·617	·625	·663	·677	·682	·675	·618	22 0	·685	4 10	·523	23
·714	·698	·702	·704	·726	·737	·752	·758	·774	·763	·714	22 45	·776	3 0	·649	24
·735	·714	·709	·706	·724	·730	·753	·762	·776	·764	·747	8 0	·780	16 3	·698	25
·730	·711	·706	·706	·735	·760	·768	·772	·778	·764	·744	21 50	·780	16 25	·694	26
·712	·694	·704	·704	·733	·742	·763	·762	·776	·758	·737	22 5	·777	16 0	·688	27
·773	·758	·770	·766	·782	·786	·798	·794	·800	·788	·774	11 6	·810	3 2	·716	28
·724	·704	·702	·694	·715	·723	·737	·737	·742	·721	·741	8 45	·782	17 50	·693	29
·661	·639	·639	·638	·665	·669	·693	·698	·701	·688	·680	9 0	·719	15 55	·629	30
·634	·615	·606	·615	·626	·629	·645	·651	·663	·651	·655	9 15	·703	16 35	·602	31
29·690	29·672	29·671	29·670	29·690	29·697	29·714	29·718	29·726	29·715	29·699					Mean.
—·009	—·027	—·028	—·029	—·009	—·002	+·015	+·019	+·027	+·016						Variation.

AUGUST.

29·623	29·605	29·604	29·593	29·611	29·624	29·645	29·645	29·659	29·653	29·625	22 0	29·660	4 0	29·577	1
·618	·598	·594	·603	·632	·643	·658	·653	·661	·649	·643	10 20	·687	16 15	·591	2
·653	·632	·634	·627	·649	·651	·677	·675	·680	·663	·654	10 25	·691	3 22	·610	3
·621	·603	·599	·592	·619	·624	·644	·639	·648	·631	·634	8 40	·675	17 10	·587	4
·581	·559	·563	·559	·581	·587	·602	·602	·602	·584	·591	10 40	·629	17 26	·557	5
·610	·591	·598	·598	·626	·635	·674	·680	·693	·675	·612	21 15	·679	3 21	·531	6
·713	·694	·698	·693	·722	·737	·761	·766	·773	·762	·715	9 53	·759	3 32	·648	7
·763	·743	·747	·749	·774	·785	·812	·809	·816	·796	·765	21 0	·817	4 7	·700	8
·770	·755	·756	·762	·774	·780	·806	·808	·813	·802	·780	22 0	·814	4 20	·738	9
·756	·736	·739	·733	·754	·757	·774	·774	·774	·767	·766	10 0	·806	17 0	·728	10
·765	·753	·756	·757	·781	·786	·806	·804	·809	·789	·770	21 40	·807	3 25	·715	11
·755	·739	·738	·735	·749	·755	·771	·772	·781	·762	·767	9 4	·809	17 20	·733	12
·722	·702	·708	·704	·729	·736	·759	·765	·764	·748	·737	9 40	·776	17 6	·700	13
·746	·743	·751	·754	·768	·777	·797	·797	·802	·790	·760	22 0	·804	3 5	·702	14
·79	·793	·795	·793	·807	·814	·841	·838	·840	·819	·804	10 0	·842	3 50	·746	15
·770	·750	·754	·759	·780	·786	·800	·799	·801	·784	·784	9 0	·822	4 10	·746	16
·734	·722	·720	·720	·732	·734	·744	·746	·749	·734	·748	10 0	·794	16 3	·718	17
·694	·686	·694	·698	·716	·719	·748	·746	·756	·741	·716	22 0	·758	4 30	·681	18
·754	·742	·750	·752	·772	·774	·797	·796	·798	·787	·757	22 15	·805	2 50	·702	19
·783	·766	·764	·756	·772	·775	·792	·794	·794	·780	·786	9 32	·834	17 12	·754	20
·762	·746	·750	·745	·758	·759	·778	·768	·768	·746	·768	10 35	·812	3 0	·738	21
·704	·689	·694	·696	·725	·729	·750	·749	·762	·745	·723	22 9	·762	16 30	·685	22
·731	·712	·714	·716	·739	·747	·771	·775	·785	·774	·747	10 35	·787	16 17	·705	23
·761	·747	·753	·753	·776	·781	·801	·802	·804	·794	·768	21 30	·811	4 7	·711	24
·744	·728	·731	·732	·748	·747	·757	·751	·756	·745	·762	8 45	·805	16 10	·727	25
·747	·729	·733	·733	·757	·754	·768	·770	·773	·758	·754	10 20	·795	3 27	·715	26
·723	·713	·726	·723	·743	·751	·772	·773	·781	·767	·750	10 20	·787	14 35	·711	27
·749	·740	·753	·756	·777	·785	·803	·811	·820	·818	·770	22 0	·822	3 30	·720	28
·794	·784	·788	·788	·803	·810	·831	·836	·838	·824	·812	9 20	·854	3 52	·764	29
·770	·748	·750	·754	·784	·799	·821	·827	·831	·820	·801	10 0	·848	16 0	·744	30
·771	·745	·751	·756	·785	·799	·821	·829	·836	·822	·806	10 20	·863	16 0	·743	31
29·725	29·709	29·713	29·713	29·734	29·740	29·761	29·761	29·767	29·753	29·738					Mean.
—·013	—·029	—·025	—·025	—·004	+·002	+·023	+·023	+·029	+·015						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN INCHES OF MERCURY AT 32° F.)

Date.	Hours.													
	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14
1	29·811	29·797	29·799	29·785	29·790	29·803	29·828	29·843	29·858	29·855	29·856	29·843	29·825	29·797
2	·831	·805	·803	·791	·791	·794	·823	·841	·866	·869	·873	·861	·845	·812
3	·812	·799	·806	·803	·815	·814	·823	·826	·836	·833	·833	·828	·816	·791
4	·799	·776	·766	·758	·766	·771	·794	·806	·822	·824	·825	·806	·783	·748
5	·759	·747	·732	·729	·743	·750	·780	·790	·822	·822	·807	·792	·758	·722
6	·760	·730	·710	·708	·722	·734	·759	·769	·788	·784	·782	·772	·742	·710
7	·738	·742	·721	·714	·714	·716	·730	·738	·756	·761	·762	·747	·722	·678
8	·752	·730	·725	·726	·734	·736	·752	·764	·789	·792	·805	·790	·775	·748
9	·750	·728	·724	·713	·720	·715	·734	·749	·765	·756	·776	·788	·778	·768
10	·705	·668	·643	·610	·634	·654	·684	·708	·728	·730	·724	·709	·700	·663
11	·699	·654	·639	·628	·630	·646	·668	·687	·701	·692	·700	·684	·654	·622
12	·676	·656	·638	·622	·644	·646	·674	·687	·708	·717	·734	·721	·702	·680
13	·704	·680	·670	·663	·676	·685	·722	·746	·760	·762	·766	·756	·744	·716
14	·718	·702	·684	·677	·694	·708	·733	·746	·771	·766	·752	·740	·721	·696
15	·716	·706	·707	·697	·701	·711	·731	·747	·775	·780	·777	·766	·757	·730
16	·772	·761	·758	·758	·771	·781	·796	·808	·836	·836	·848	·832	·812	·800
17	·822	·817	·811	·810	·818	·824	·852	·864	·890	·893	·886	·877	·855	·834
18	·860	·841	·832	·829	·848	·856	·882	·894	·916	·914	·912	·890	·872	·844
19	·863	·846	·841	·837	·852	·858	·882	·895	·922	·924	·922	·910	·885	·851
20	·861	·842	·835	·831	·851	·857	·884	·894	·923	·927	·927	·909	·889	·858
21	·875	·865	·849	·839	·839	·843	·859	·871	·892	·894	·900	·885	·863	·843
22	·875	·857	·853	·840	·845	·848	·869	·885	·909	·909	·913	·889	·877	·861
23	·870	·846	·832	·828	·833	·842	·865	·882	·905	·905	·901	·883	·853	·827
24	·844	·824	·815	·804	·818	·819	·845	·857	·881	·880	·876	·860	·835	·801
25	·793	·777	·763	·757	·774	·779	·801	·812	·827	·819	·817	·800	·771	·745
26	·754	·740	·744	·740	·756	·766	·782	·792	·811	·814	·820	·800	·782	·761
27	·787	·764	·761	·757	·771	·777	·803	·815	·834	·833	·833	·815	·797	·771
28	·767	·749	·738	·732	·749	·762	·797	·807	·825	·821	·823	·801	·774	·748
29	·767	·746	·738	·737	·754	·763	·790	·798	·824	·822	·814	·785	·762	·736
30	·737	·722	·714	·714	·734	·740	·754	·774	·798	·802	·802	·776	·752	·732
Mean .	29·782	29·764	29·755	29·748	29·760	29·767	29·790	29·803	29·825	29·825	29·826	29·811	29·790	29·763
Variation.	+·004	—·014	—·023	—·030	—·018	—·011	+·012	+·025	+·047	+·047	+·048	+·033	+·012	—·015

OCTOBER.

1	29·756	29·738	29·734	29·720	29·734	29·746	29·766	29·782	29·806	29·810	29·812	29·796	29·726	29·748
2	·786	·774	·764	·758	·788	·807	·828	·838	·859	·862	·862	·854	·834	·807
3	·854	·860	·848	·834	·848	·862	·894	·911	·932	·935	·934	·908	·876	·854
4	·877	·861	·847	·837	·857	·869	·893	·897	·917	·921	·923	·897	·873	·845
5	·877	·861	·855	·848	·857	·859	·887	·905	·927	·925	·927	·912	·883	·857
6	·904	·898	·896	·896	·900	·902	·924	·946	·972	·980	·966	·942	·924	·896
7	·954	·941	·924	·926	·936	·946	·968	·976	·996	·990	·982	·954	·928	·896
8	·907	·887	·887	·883	·895	·904	·924	·937	·955	·961	·947	·912	·875	·847
9	·853	·841	·831	·821	·833	·857	·893	·913	·927	·929	·919	·896	·869	·835
10	·858	·846	·838	·832	·850	·868	·894	·920	·944	·953	·952	·928	·913	·892
11	·884	·859	·861	·862	·877	·880	·904	·913	·935	·943	·941	·920	·894	·881
12	·866	·843	·834	·825	·841	·841	·866	·880	·902	·898	·889	·865	·841	·816
13	·841	·821	·803	·791	·803	·811	·838	·856	·877	·878	·869	·846	·818	·775
14	·799	·789	·776	·783	·803	·807	·841	·865	·893	·893	·896	·871	·835	·811
15	·835	·824	·829	·817	·828	·840	·870	·887	·908	·907	·903	·880	·853	·825
16	·876	·866	·864	·860	·864	·869	·886	·898	·920	·918	·906	·876	·855	·825
17	·851	·838	·832	·825	·837	·844	·869	·876	·893	·894	·896	·875	·847	·826
18	·861	·839	·837	·826	·841	·851	·881	·888	·904	·897	·893	·860	·824	·795
19	·828	·811	·805	·797	·810	·827	·860	·869	·893	·893	·893	·863	·843	·824
20	·874	·854	·858	·854	·877	·878	·914	·931	·950	·948	·944	·916	·890	·866
21	·891	·877	·863	·847	·855	·865	·884	·895	·923	·925	·913	·893	·861	·831
22	·830	·811	·811	·801	·803	·810	·837	·849	·864	·866	·869	·837	·809	·775
23	·806	796	·793	·790	·798	·806	·827	·842	·868	·874	·872	·842	·810	·792
24	·832	·812	·806	·801	·814	·820	·856	·870	·893	·896	·901	·881	·860	·836
25	·843	·827	·812	·814	·822	·834	·858	·866	·884	·885	·884	·858	·817	·788
26	·803	·785	·776	·765	·765	·772	·803	·812	·829	·829	·831	·801	·775	·749
27	·753	·747	·741	·730	·737	·740	·765	·776	·799	·803	·805	·766	·733	·727
28	·719	·696	·688	·668	·663	·671	·698	·715	·734	·733	·728	·694	·654	·616
29	·653	·626	·615	·611	·624	·621	·648	·635	·670	·682	·676	·678	·664	·640
30	·753	·748	·752	·750	·762	·776	·809	·826	·854	·856	·852	·832	·820	·796
31	·827	·808	·800	·793	·808	·820	·858	·872	·896	·897	·886	·862	·840	·817
Mean .	29·834	29·819	29·812	29·805	29·817	29·826	29·853	29·866	29·888	29·890	29·886	29·862	29·834	29·809
Variation.	·000	—·015	—·022	—·029	—·017	—·008	+·019	+·032	+·054	+·056	+·052	+·028	·000	—·025

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.	Maximum.		Minimum.		Date.
14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24		Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
29·777	29·760	29·765	29·757	29·798	29·812	29·829	29·835	29·851	29·837	29·813	8 10	29·859	17 15	29·753	1
·793	·767	·755	·777	·796	·804	·843	·854	·853	·828	·820	10 0	·875	16 21	·743	2
·764	·748	·751	·741	·752	·770	·809	·810	·814	·810	·800	8 27	·838	17 10	·740	3
·733	·714	·712	·712	·738	·744	·774	·780	·788	·770	·771	10 0	·828	16 20	·710	4
·703	·690	·691	·698	·728	·736	·766	·776	·778	·760	·753	8 40	·824	16 25	·688	5
·680	·655	·663	·700	·749	·754	·782	·788	·786	·774	·742	9 0	·792	16 32	·652	6
·654	·635	·654	·670	·708	·728	·743	·773	·784	·762	·724	21 32	·790	15 54	·628	7
·734	·713	·724	·734	·761	·763	·788	·780	·779	·764	·757	10 8	·806	15 45	·706	8
·748	·721	·717	·713	·726	·723	·736	·734	·733	·715	·739	11 27	·800	3 32	·702	9
·639	·612	·620	·625	·640	·648	·668	·684	·688	·673	·669	9 48	·740	3 4	·598	10
·609	·600	**·599**	·602	·639	·648	·668	·676	·674	·666	**·652**	8 15	·706	15 52	**·594**	11
·671	·656	**·655**	·664	·688	·702	·722	·726	·728	·720	·685	10 26	·736	3 30	·620	12
·701	·688	**·693**	·692	·719	·730	·746	·750	·751	·735	·719	9 26	·768	3 6	·662	13
·684	·684	·692	·694	·702	·712	·740	·744	·736	·724	·717	9 0	·776	2 40	·672	14
·721	·709	·715	·721	·749	·759	·781	·785	·796	·783	·743	22 15	·801	3 45	·693	15
·790	·778	·770	·770	·794	·802	·826	·832	·841	·831	**·810**	10 20	·850	2 55	·756	16
·813	·796	·806	·802	·826	·832	·851	·860	·874	·862	·841	9 30	·894	15 45	·794	17
·828	·814	·822	·832	·844	·856	·872	·884	·884	·874	·863	9 32	·920	15 25	·810	18
·832	·818	·824	·824	·852	·862	·882	·886	·893	·877	·868	8 50	·926	15 40	·816	19
·837	·821	·821	·825	·855	·861	·887	·892	·896	·883	**·869**	9 15	**·929**	16 35	·813	20
·825	·805	·813	·815	·843	·849	·881	·885	·889	·873	·858	10 0	·905	16 10	·803	21
·839	·821	·821	·819	·847	·862	·886	·883	·883	·881	·865	9 8	·917	16 17	·813	22
·810	·794	·803	·809	·823	·835	·860	·861	·861	·849	·849	8 40	·907	16 5	·793	23
·781	·765	·763	·762	·783	·795	·814	·812	·811	·805	·819	8 45	·883	16 30	·759	24
·730	·715	·711	·719	·739	·745	·771	·775	·779	·761	·770	8 32	·819	16 25	·709	25
·742	·726	·724	·734	·764	·774	·803	·804	·802	·786	·772	9 35	·822	16 10	·722	26
·747	·741	·748	·747	·771	·775	·797	·795	·791	·777	·784	8 42	·835	15 56	·739	27
·733	·721	·726	·736	·745	·761	·783	·777	·783	·775	·768	8 25	·827	16 25	·719	28
·728	·703	·702	·704	·734	·738	·756	·758	·758	·750	·757	8 55	·828	16 6	·694	29
·716	·704	·710	·712	·736	·746	·764	·766	·772	·766	·748	9 15	·806	15 30	·702	30
29·745	**29·729**	29·732	29·737	29·762	29·771	29·794	29·799	29·802	29·789	29·778					Mean.
—·033	**—·049**	—·046	—·041	—·016	—·007	+·016	+·021	+·024	+·011						Variation.

OCTOBER.

29·729	29·715	29·717	29·729	29·760	29·778	29·806	29·813	29·812	29·798	29·764	9 15	29·814	16 20	29·710	1
·782	·764	·788	·796	·832	·838	·854	·854	·861	·854	·818	9 45	·870	3 10	·756	2
·827	·814	·826	·830	·866	·838	·906	·906	·906	·886	·873	9 47	·944	15 35	·812	3
·825	·827	·833	·847	·875	·883	·893	·893	·893	·887	·874	9 25	·925	14 50	·819	4
·831	·811	·823	·831	·875	·895	·925	·919	·922	·915	·880	9 32	·927	15 15	·809	5
·870	·851	·874	·908	·930	·992	·992	·988	·982	·970	**·929**	19 43	30·008	15 50	·844	6
·869	·859	·872	·866	·901	·905	·924	·930	·931	·912	·929	8 30	29·998	16 10	·854	7
·823	·818	·817	·815	·841	·857	·873	·873	·871	·865	·882	9 15	·963	15 35	·813	8
·803	·799	·805	·819	·865	·869	·873	·871	·869	·867	·861	8 30	·931	15 10	·795	9
·866	·850	·862	·862	·890	·908	·920	·906	·896	·894	·889	9 20	·956	3 20	·830	10
·859	·845	·865	·904	·922	·908	·918	·903	·894	·875	·893	9 35	·945	15 35	·833	11
·792	·770	·786	·791	·821	·828	·845	·846	·849	·847	·883	8 20	·903	15 15	·769	12
·755	·733	·760	·761	·781	·795	·827	·830	·826	·814	·813	9 13	·883	15 30	·731	13
·799	·785	·798	·807	·829	·850	·870	·869	·859	·850	·832	9 20	·897	2 36	·771	14
·801	·779	·799	·805	·833	·853	·889	·887	·889	·878	·851	8 53	·909	15 30	·778	15
·805	·794	·806	·811	·838	·852	·873	·873	·872	·861	·861	8 40	·922	15 46	·792	16
·810	·794	·814	·818	·844	·856	·884	·884	·888	·874	·853	9 35	·897	15 12	·792	17
·782	·767	·777	·785	·807	·825	·846	·846	·847	·840	·838	8 38	·901	15 45	·761	18
·809	·793	·807	·817	·845	·857	·882	·875	·887	·875	·844	9 30	·897	15 45	·789	19
·846	·830	·838	·850	·874	·884	·909	·910	·910	·898	·888	9 0	·952	15 30	·828	20
·799	·779	·782	·793	·816	·830	·848	·844	·845	·839	·854	9 15	·929	15 50	·771	21
·761	·753	·757	·757	·775	·783	·812	·813	·819	·813	·809	9 30	·871	15 53	·751	22
·771	·756	·773	·777	·799	·812	·834	·835	·843	·834	·815	9 22	·878	15 52	·752	23
·827	·811	·814	·814	·825	·844	·862	·858	·861	·850	·844	9 46	·905	2 45	·795	24
·758	·743	·749	·753	·773	·787	·816	·817	·819	·810	·817	9 10	·891	15 55	·745	25
·720	·705	·711	·715	·729	·749	·767	·755	·759	·751	·769	9 48	·833	15 55	·703	26
·702	·682	·689	·699	·719	·725	·744	·741	·743	·727	·741	9 12	·813	15 50	·681	27
·600	·579	**·578**	·610	·660	·667	·690	·683	·678	·672	**·671**	9 15	·740	16 10	**·562**	28
·635	·630	·656	·676	·708	·729	·762	·758	·770	·761	·672	22 0	·772	3 30	·602	29
·782	·774	·785	·795	·821	·834	·851	·847	·850	·856	·807	9 28	·860	2 45	·746	30
·802	·794	·806	·807	·825	·842	·862	·861	·862	·851	·837	8 50	·902	3 50	·792	31
29·788	**29·774**	29·786	29·795	29·822	29·835	29·857	29·854	29·855	29·845	29·834					Mean.
—·046	**—·060**	—·048	—·039	—·012	+·001	+·023	+·020	+·021	+·011						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN INCHES OF MERCURY AT 32° F.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	29·814	29·829	29·828	29·827	29·828	29·839	29·867	29·876	29·894	29·896	29·892	29·866	29·852	29·820
2	·879	·860	·856	·848	·868	·882	·906	·906	·924	·927	·924	·904	·882	·870
3	·896	·882	·872	·864	·883	·891	·922	·927	·956	·952	·945	·925	·907	·879
4	·912	·892	·881	·870	·880	·889	·914	·928	·953	·957	·954	·931	·908	·882
5	·912	·896	·884	·878	·882	·882	·911	·924	·944	·946	·938	·910	·884	·859
6	·897	·886	·872	·861	·866	·872	·898	·912	·938	·938	·929	·905	·882	·858
7	·906	·887	·879	·876	·897	·912	·944	·957	·987	·994	·992	·970	·947	·923
8	·946	·934	·928	·932	·942	·957	·992	30·010	30·038	30·038	30·036	30·008	·992	·956
9	·972	·961	·948	·941	·943	·950	·976	29·992	·014	·017	·005	29·970	·935	·912
10	·914	·900	·895	·884	·890	·894	·921	·930	29·954	29·952	29·942	·914	·884	·850
11	·897	·887	·884	·876	·893	·904	·929	·948	·969	·970	·966	·944	·922	·896
12	·955	·945	·946	·943	·950	·962	·993	30·010	30·035	30·036	30·029	30·003	·980	·958
13	·970	·956	·952	·938	·949	·953	·980	29·989	·011	·011	·003	29·974	·948	·921
14	·971	·958	·947	·940	·944	·951	·972	·982	·004	·004	29·996	·983	·950	·922
15	·971	·962	·961	·960	·980	·989	30·015	30·027	·053	·053	30·053	30·025	30·001	·966
16	30·020	30·006	·999	·996	30·006	30·012	·037	·050	**·069**	·066	·061	·035	·011	·987
17	29·975	29·955	·944	·934	29·942	29·943	29·966	29·972	29·995	29·993	29·975	29·954	29·926	·898
18	·920	·899	·981	·964	·874	·878	·909	·924	·951	·949	·941	·920	·892	·870
19	·912	·893	·882	·872	·876	·881	·912	·932	·960	·960	·952	·932	·904	·876
20	·905	·891	·880	·866	·872	·874	·897	·913	·932	·932	·923	·894	·866	·840
21	·867	·854	·845	·841	·858	·866	·892	·904	·926	·925	·917	·895	·867	·836
22	·872	·868	·866	·862	·875	·883	·920	·945	·973	·978	·972	·948	·920	·887
23	·926	·913	·912	·907	·911	·928	·958	·968	·993	·996	·984	·959	·928	·894
24	·932	·921	·916	·915	·921	·939	·969	·988	30·019	30·017	30·007	·986	·969	·943
25	·987	·970	·969	·960	·967	·971	30·001	30·016	·040	·043	·037	30·015	·989	·950
26	·975	·963	·961	·956	·962	·970	29·995	·006	·038	·038	·034	·016	·978	·948
27	·992	·982	·972	·964	·972	·983	30·004	·020	·041	·038	·028	·000	·964	·932
28	·946	·928	·924	·909	·923	·925	29·957	29·972	·006	·004	29·993	29·962	·927	·896
29	·909	·894	·890	·887	·898	·908	·932	·938	29·965	29·963	·951	·917	·882	·844
30	·840	·823	·821	·813	·821	·829	·851	·856	·881	·879	·871	·848	·814	·788
Mean .	29·927	29·913	29·910	29·903	29·909	29·917	29·945	29·957	**29·982**	29·982	29·975	29·950	29·924	29·896
Variation.	+·002	—·012	—·015	—·022	—·016	—·008	+·020	+·032	**+·057**	+·057	+·050	+·025	—·001	—·029

DECEMBER.

1	29·826	29·810	29·798	29·792	29·804	29·812	29·837	29·851	29·878	29·877	29·872	29·846	29·816	29·794
2	·830	·814	·811	·810	·826	·838	·867	·888	·913	·915	·912	·890	·858	·836
3	·874	·856	·848	·840	·848	·854	·881	·902	·932	·935	·940	·917	·890	·859
4	·916	·900	·895	·896	·912	·929	·956	·969	·998	·998	·996	·971	·948	·936
5	·965	·950	·949	·936	·955	·962	·990	30·003	30·029	30·029	30·021	·999	·982	·956
6	30·010	·998	·991	·980	·989	·996	30·020	·025	·044	**·046**	·041	30·020	·994	·968
7	·007	·993	·983	·968	·973	·984	·007	·020	·036	·033	·027	·007	·983	·951
8	29·953	·942	·939	·925	·929	·931	29·951	29·972	29·999	·001	29·993	29·963	·931	·898
9	·918	·910	·908	·907	·916	·925	·953	·969	·993	29·989	·979	·957	·934	·905
10	·941	·926	·923	·913	·926	·934	·957	·978	60·002	30·000	·994	·970	·940	·915
11	·948	·933	·927	·918	·928	·937	·963	·982	·011	·009	·998	·970	·943	·914
12	·938	·926	·913	·902	·909	·918	·943	·962	29·993	29·996	·997	·975	·944	·918
13	·948	·938	·931	·924	·937	·948	·974	·994	30·023	30·022	30·012	·988	·959	·930
14	·956	·938	·930	·919	·940	·945	·972	·985	·015	·014	·007	·983	·951	·926
15	·973	·955	·947	·938	·948	·953	·989	30·002	·027	·029	·021	·995	·957	·925
16	·960	·945	·937	·925	·944	·951	·979	29·997	·020	·020	·019	·999	·976	·953
17	·982	·964	·956	·940	·953	·960	·984	·996	·018	·017	·020	·995	·967	·943
18	·975	·957	·942	·936	·948	·951	·979	·990	·015	·017	·010	·989	·966	·935
19	·943	·929	·923	·909	·914	·915	·941	·955	29·995	29·996	29·992	·966	·946	·909
20	·934	·920	·917	·909	·925	·935	·963	·981	30·011	30·007	30·001	·979	·947	·917
21	·932	·923	·916	·906	·914	·925	·952	·974	·009	·012	·014	·992	·969	·936
22	·936	·924	·916	·908	·926	·938	·965	·982	·012	·015	·006	·972	·931	·896
23	·909	·898	·896	·891	·896	·904	·933	·950	29·978	29·982	29·978	·950	·935	·903
24	·957	·946	·941	·943	·962	·969	30·008	30·019	30·039	30·042	30·041	30·019	·985	·951
25	·980	·960	·947	·939	·945	·943	29·972	29·987	·009	·014	·017	29·998	·974	·943
26	·966	·938	·934	·922	·929	·933	·955	·963	29·987	29·989	29·987	·957	·934	·913
27	·943	·921	·921	·918	·937	·946	·981	·991	30·009	30·009	30·005	·975	·950	·923
28	·945	·932	·929	·919	·931	·934	·970	·989	·015	·015	·015	·989	·953	·929
29	·952	·934	·928	·924	·930	·936	·960	·972	·002	·005	·012	30·000	·980	·952
30	·942	·932	·931	·928	·936	·940	·962	·978	·006	·002	29·994	29·970	·936	·912
31	·954	·936	·936	·932	·936	·943	·968	·980	·010	·012	30·011	·983	·954	·921
Mean .	29·942	29·927	29·921	29·913	29·925	29·932	29·959	29·974	30·001	**30·002**	29·998	29·974	29·946	29·918
Variation.	—·002	—·017	—·023	—·031	—·019	—·012	+·015	+·030	+·057	**+·058**	+·054	+·030	+·002	—·026

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.	Maximum.		Minimum.		Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
29·802	29·794	29·812	29·822	29·852	29·868	29·882	29·886	29·900	29·886	29·853	9 20	29·904	15 20	29·793	1
·852	·833	·841	·844	·874	·888	·907	·907	·919	·900	·883	9 14	·932	16 8	·830	2
·863	·848	·864	·872	·896	·918	·939	·938	·934	·922	·904	9 22	·958	15 20	·846	3
·870	·860	·862	·869	·899	·922	·934	·936	·933	·921	·907	9 20	·960	15 58	·858	4
·847	·841	·843	·848	·874	·885	·904	·909	·913	·900	·892	9 5	·952	15 53	·840	5
·841	·836	·844	·845	·876	893	·910	·908	·916	·907	·887	9 0	·944	15 52	·834	6
·912	·898	·907	·907	·930	·939	·958	·956	·964	·954	·933	9 17	·998	3 35	·874	7
.945	·928	·933	·952	·950	·966	·982	·987	·995	·982	·972	9 35	30·048	2 30	·926	8
·895	·880	·883	·885	·902	·913	·934	·925	·933	·919	·942	9 7	·018	15 45	·878	9
·846	·832	·847	·854	·879	·890	·906	·910	·919	·908	·897	9 0	29·956	15 40	·830	10
·886	·881	·900	·906	·933	·947	·962	·962	·971	·964	·925	9 20	·978	2 55	·874	11
·942	·927	·938	·942	·965	·975	·990	·990	·991	·968	·974	8 45	30 038	15 12	·926	12
·915	·910	·918	·926	·951	·965	·987	·987	·989	·976	·962	9 5	·014	15 40	·909	13
·902	·890	·899	·910	·940	·954	·981	·984	·986	·977	·956	9 0	.007	15 58	·885	14
·952	·945	·955	·966	·996	30·012	30·034	30·036	30·048	30·021	·999	8 46	·059	15 11	·941	15
·974	·961	·973	·973	·987	29·995	·009	·003	·000	29·987	30·009	8 45	·072	15 50	·958	16
·984	·874	·882	·893	·911	·927	29·946	29·946	29·953	·931	29·942	8 36	29·998	15 50	·870	17
·856	·843	·848	·850	·878	·888	·910	·911	·924	·914	·904	9 5	·954	15 55	·842	18
·864	·858	·868	·873	·895	·905	·918	·920	·925	·914	·903	8 50	·966	15 50	·856	19
·824	·814	·828	·830	·856	·868	·880	·877	·887	·870	·876	9 5	·938	15 45	·812	20
·821	·816	·829	·837	·858	·870	·884	·881	·890	·879	·869	8 40	·928	15 48	·812	21
·872	·866	·880	·885	·908	·920	·938	·938	·936	·928	·910	9 10	·982	15 35	·856	22
·876	·870	·870	·877	·906	·918	·934	·940	·946	·931	·927	9 5	30·000	15 38	·862	23
·925	·915	·927	·939	·969	·977	·997	·997	30·002	·991	·962	8 40	·021	4 8	·905	24
·935	·923	·934	·938	·960	·969	·987	·984	29·987	·976	·979	9 20	·057	16 6	·921	25
·932	·927	·932	·938	·965	·984	30·003	30·007	30·009	30·000	·981	9 5	·040	15 50	·918	26
·912	·896	·901	·909	·937	·952	29·972	29·967	29·968	29·953	·969	8 45	·042	16 10	·894	27
·872	·857	·864	·870	·894	·908	·930	·929	·927	·909	·926	9 0	·008	15 45	·854	28
·825	·811	·814	·818	·849	·858	·866	·865	·864	·848	·883	8 40	29·970	15 52	·810	29
·768	·760	·772	·776	·806	·819	·837	·841	·845	·836	·825	8 45	·884	15 50	·758	30
29·884	29·870	29·879	29·885	29·910	29·923	29·941	29·941	29·946	29·932	29·925					Mean.
—·041	—·055	—·046	—·040	—·015	—·002	+·016	+·016	+·021	+·007						Variation.

DECEMBER.

29·778	29·768	29·774	29·781	29·811	29·824	29·849	29·849	29·850	29·837	29·822	9 5	29·882	16 7	29·766	1
·820	·810	·823	·836	·860	·876	·904	·900	·900	·881	·859	9 35	·918	2 30	·802	2
·850	·842	·856	·872	·905	·915	·936	·936	·934	·917	·889	9 30	·942	3 56	·836	3
·918	·903	·920	·927	·954	·961	·978	·980	·978	·966	·946	9 10	30·000	2 5	·888	4
·944	·934	·946	·963	·986	·989	30·017	30·023	30·024	30·013	·982	9 30	·035	15 50	·931	5
·947	·936	·948	·956	·986	·997	·017	·015	·014	·012	·998	9 40	·051	15 40	·933	6
·937	·933	·938	·944	·964	·971	29·986	29·987	29·982	29·965	·982	8 25	·037	16 35	·932	7
·882	·868	·879	·889	·916	·926	·946	·944	·941	·924	·935	9 0	·003	15 40	·867	8
·892	·882	·891	·902	·924	·937	·956	·957	·957	·941	·933	8 30	29·995	15 35	·881	9
·898	·886	·900	·904	·932	·940	·960	·957	·962	·949	·942	8 45	30·004	15 55	·884	10
·903	·895	·907	·912	·935	·943	·953	·958	·957	·944	·945	8 40	·012	15 5	·894	11
·906	·896	·904	·908	·934	·944	·962	·964	·967	·954	·941	9 20	29·998	15 50	·894	12
·922	·915	·924	·930	·953	·960	·981	·982	·983	·966	·960	9 2	30·024	15 42	·914	13
·912	·904	·916	·922	·948	·952	·981	·984	·990	·977	·957	8 30	·016	14 45	·902	14
·911	.903	·910	·919	·939	·950	·977	·980	·981	·971	·963	9 10	·031	16 5	·901	15
·945	·932	·939	·939	·963	·975	·995	·998	30·005	·991	·971	9 10	·023	3 30	·923	16
·929	·919	·927	·936	·963	·967	·996	·998	29·999	·986	·971	8 50	·021	15 55	·917	17
·916	·903	·909	·908	·927	·937	·956	·953	·953	·945	·955	9 10	·019	15 40	·897	18
·892	·873	·883	·884	·910	·921	·940	·945	·948	·937	·932	9 10	·001	15 40	·863	19
·900	·881	·895	·899	·926	·943	·953	·951	·949	·935	·941	8 50	·015	15 55	·878	20
·922	·907	·910	·916	·936	·943	·956	·956	·954	·940	·946	9 50	·024	3 5	·902	21
·867	·848	·852	·860	·881	·898	·920	·916	·924	·914	·925	9 10	·020	16 8	·842	22
·892	·878	·888	·898	·927	·940	·957	·965	·976	·961	·929	9 15	29·991	16 10	·876	23
·929	·915	·933	·941	·966	·979	·997	30·005	30·015	·994	·979	9 15	30·045	15 55	·911	24
·931	·915	·931	·935	·957	·969	·993	29·994	29·997	·977	·968	9 40	·021	16 20	.911	25
·895	·880	·895	·899	·923	·940	·957	·959	·961	·955	·940	8 50	29·999	15 43	·879	26
·915	·909	·919	·922	·941	·947	·965	·965	·970	·952	·951	9 22	30·023	15 40	·907	27
·911	·895	·900	·901	·924	·935	·966	·970	·974	·961	·950	9 5	·021	16 10	·893	28
·937	·926	·912	·910	·924	·928	·946	·948	·955	·947	·951	9 50	·020	16 45	·908	29
·896	·881	·892	·900	·934	·947	·976	·978	·977	·956	·946	9 0	·008	15 20	·880	30
·911	·905	·918	·926	·956	·966	·987	·987	·988	·978	·958	9 15	·014	15 20	·904	31
29·903	29·892	29·901	29·908	29·932	29·943	29·963	29·965	29·967	29·953	29·944					Mean.
—·041	—·052	—·043	—·036	—·012	—·001	+·019	+·021	+·023	+·009						Variation.

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

JUNE. (FROM PLUVIOGRAPH RECORDS.)

Date.	Hours.													
	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	0·02	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	0·13	..	0·02
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	..	0·01	..	..	0·34	0·03	..	..	..	..	..	..	0·13	0·02
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	0·08	..	..	..	0·58	0·33	..	..
16	..	..	..	..	0·25	0·32	0·13	..	..	..	0·01	..	..	..
17	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	0·10	..	..	..	..	..	..	..	..	..	..	..	..	..
19	0·01	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	..	..	..	..	..	..	0·02	0·21	0·16	0·02	..	0·02
22	0·32	0·16	0·05	0·13	0·20	0·14	0·01	0·02	..	0·19	0·30	0·23	0·12	0·32
23	0·47	0·70	0·05	0·20	0·57	0·14	0·05	0·30	0·70	0·17	..	..	..	..
24	0·06	0 02	0·08	0·01	..	..	0·02	0·02	..	0·05	0·01	0·05	..	..
25	..	..	..	..	..	0·09	..	0·40	1·44	0·47	0·10	..	..	..
26	..	0·03	..	0·15	0·23	0·17	0·06	0·28	..	0·17	0·03	0·02	..	0·09
27	..	..	0·01	0·02	..	0·16	0·03	0·26	0·73	0·11	0·05	0·26	0·05	0·04
28	..	..	0·11	..	..	0·01	..	0·05	0·01	0·03	0·03	0·03	0·08	0·70
29	..	..	..	..	..	0·02	0·07	..	..	0·01	..	..	..	..
30	0·02	0·13	0·04	0·05	0·02	0·02	0·17	0·14	0·10	0·05	..	..	..	..
Total .	0·98	1·05	0·34	0·56	1·63	1·10	0·62	1·47	3·00	1·46	1·27	1·07	0·38	1·21

JULY.

1	..	0·02	..	..	0·21	0·14	..	0·06	..	0·25	..	..	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..	0·01	0·01
3	0·02	0·25	..	0·01	..	..	..	..	..	..	..	..	0·01	..
4	..	0·07	0·02	0·26	0·30	0·03	..	0·04	0·06	..	..	..	..	..
5	..	0·04	0·02	0·01	..	..	..	..	..	0·11	..	..	..	..
6	..	..	..	..	..	..	..	..	..	..	..	..	0·36	0·09
7	..	0·06	..	..	..	..	..	..	..	..	..	..	..	0·03
8	0·06	0·01	..	..	..	..	..	..	..	..	..	..	..	0·02
9	..	0·04	..	0·01	..	0·01	..	..	..	..	..	..	..	0·03
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	0·02	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	0·01	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	20·06	0·01	..	..	0·02
16	..	..	..	..	..	..	..	..	0·01	..	..	..	..	..
17	..	..	..	..	0·05	0·06	..	0·01	0·35	0·14	0·05	0·11	..	..
18	..	..	..	..	..	0·01	..	..	..	..	..	..	..	0·01
19	0·06	..	..	..	..	0·01	..	0·01	0·03	..	..	..	..	0·01
20	0·25	0·02	..	0·01	..	0.03	0·05	..	..	0·01	..	..	..	0·01
21	..	0·02	..	..	0·04	0·02	..	..	..	0·01	0·02	..	..	0·05
22	..	..	..	..	..	..	..	..	..	0·01	..	..	..	..
23	..	..	..	..	..	0·01	..	..	..	..	..	..	..	..
24	..	..	..	..	..	0·01	0·10	0·03	..	0·03	..	..	..	..
25	..	..	..	..	0·01	0·04	..	..	..	0·01	0·09	0·01	..	..
26	..	0·08	..	..	0·06	0·26	0·02	0·01	..	..	..	..	..	0·01
27	..	..	..	..	..	..	..	..	..	0·01	..	..	..	..
28	..	..	..	0·05	..	..	..	0·04	0·02	0·01	..	0·09	0·01	..
29	..	..	..	0·02	..	0·02	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	0·01	..	..	..	..
31	0·06	..	..	0·01	..	0·01	..	..	..	..	..	..	..	0·01
Total .	0·45	0·61	0·04	0·38	0·69	0·67	0·17	0·20	0·47	0·66	0·17	0·21	0·39	0·30

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

JUNE. (FROM PLUVIOGRAPH RECORDS.)

Hours.										Daily Total.	Maximum fall in one hour.	Time of occurrence.	Daily* total by Newman.	Date.
14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24			H. to H.		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	8
..	..	..	..	..	..	0·15	0·08	..	..	0·25	0·15	20 21	0·27	9
..	..	..	..	..	..	..	..	..	..	0·15	0·13	11 12	0·17	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	11
..	..	..	..	..	0·18	..	..	..	..	0·71	0·34	4 5	0·74	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	13
..	..	..	..	..	0·02	..	0·04	0·04	..	0·10	0·04	21 22	0·10	14
..	0·13	0·04	0·10	..	..	..	..	..	..	1·26	0·58	10 11	1·33	15
..	..	..	..	..	..	..	..	..	..	0·71	0·32	5 6	0·85	16
..	..	..	..	..	..	..	..	..	..	..	..	..	..	17
..	..	..	..	..	..	..	..	..	..	0·10	0·10	0 1	0·11	18
..	..	..	..	..	0·01	..	..	0·01	..	0·03	0·01	0 1	0·04	19
..	..	..	..	..	..	..	0·04	0·01	0·02	0·07	0·04	21 22	0·10	20
..	..	0·07	0·04	0·01	..	0·01	0·43	0·30	0·05	1·34	0·43	21 22	1·46	21
0·52	0·85	0·19	0·17	0·01	0·04	..	0·05	0·31	0·01	**4·34**	0·85	15 16	**4·54**	22
0·02	0·01	..	..	..	..	0·21	0·59	0·11	0·01	4·30	0·70	1 2	4·49	23
..	0·04	0·02	..	..	..	..	..	..	..	0·38	0·08	2 3	0·38	24
..	..	..	..	..	..	..	..	..	0·06	2·56	**1·44**	8 9	2·68	25
..	0·05	0·03	0·03	..	..	..	0·04	..	0·09	1·47	0·28	7 8	1·56	26
0·18	0·02	0·69	1·00	0·18	0·05	0·01	..	0·02	..	3·87	1·00	17 18	4·08	27
0·24	0·04	..	0·13	..	0·02	0·04	..	..	..	1·52	0·70	13 14	1·63	28
..	0·13	0·12	0·05	0·03	0·03	0·21	0·10	0·39	0·26	1·42	0·39	22 23	1·50	29
0·01	0·11	0·26	0·07	0·01	0·08	0·02	..	..	..	1·30	0·26	16 17	1·45	30
0·97	1·38	1·42	1·59	0·24	0·43	0·65	1·37	1·19	0·50	25·88	..	..	27·48	Total.

JULY.

..	..	..	..	..	..	..	..	..	..	0·68	0·25	9 10	0·73	1
..	..	..	..	..	..	..	0·01	0·01	0·28	0·32	0·28	23 24	0·38	2
..	0·03	0·03	0·01	..	..	..	0·03	..	0·28	0·67	0·28	23 24	0·76	3
..	..	..	..	..	..	..	..	..	0·07	0·85	0·30	4 5	0·98	4
..	0·03	..	..	..	..	..	0·01	..	..	0·22	0·11	9 10	0·23	5
..	..	0·05	0·01	..	..	..	..	..	0·01	0·52	**0·36**	12 13	0·58	6
..	..	..	..	..	..	..	..	..	0·01	0·10	0·06	1 2	0·11	7
..	..	..	..	..	..	..	..	0·01	..	0·10	0·06	0 1	0·11	8
..	..	..	..	..	..	..	0·01	..	..	0·10	0·04	1 2	0·14	9
..	..	..	..	..	0·02	..	0·07	..	..	0·09	0·07	21 22	0·09	10
..	..	..	..	..	..	..	..	..	..	0·02	0·02	4 5	0·02	11
..	..	..	0·19	..	..	..	..	..	..	0·20	0·19	17 18	0·21	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	13
..	..	..	0·08	..	..	..	0·02	..	..	0·10	0·08	17 18	0·12	14
..	..	0·03	..	..	..	..	..	..	..	0·12	0·06	9 10	0·13	15
0·05	..	..	..	..	..	..	0·07	0·04	0·01	0·18	0·07	21 22	0·18	16
..	0·02	0·02	0·01	..	0·22	..	..	..	0·01	**1·05**	0·35	8 9	**1·17**	17
0·01	..	0·01	..	..	..	0·05	0·01	..	..	0·10	0·05	20 21	0·11	18
0·14	0·03	..	..	..	..	..	..	..	..	0·29	0·14	14 15	0·32	19
..	..	..	..	..	..	..	..	0·02	0·01	0·41	0·25	0 1	0·46	20
..	..	..	..	..	..	..	..	0·01	0·01	0·18	0·05	13 14	0·19	21
..	..	..	..	..	..	0·02	0·01	..	..	0·04	0·02	20 21	0·05	22
..	..	0·08	0·08	0·08	..	..	0·02	0·03	..	0·30	0·08	16 17	0·35	23
..	0·04	..	..	..	0·01	..	0·01	..	0·05	0·28	0·10	6 7	0·33	24
..	..	..	0·08	..	..	..	..	..	..	0·24	0·09	10 11	0·26	25
..	..	..	..	..	..	..	..	..	..	0·44	0·26	5 6	0·49	26
..	..	..	0·06	0·02	..	..	..	..	..	0·09	0·06	17 18	0·09	27
..	..	0·17	0·07	..	..	..	..	..	..	0·46	0·17	16 17	0·49	28
..	..	..	..	..	..	..	0·02	..	..	0·06	0·02	3 4	0·06	29
..	..	0·19	..	..	..	..	..	..	..	0·20	0·19	16 17	0·26	30
0·02	0·01	..	0·03	..	..	..	0·01	..	0·02	0·18	0·06	0 1	0·21	31
0·22	0·16	0·58	0·62	0·10	0·25	0·07	0·30	0·12	**0·76**	8·59	..	..	9·61	Total.

* Adopted as the standard instrument in the Observatory since 1845.

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

AUGUST.

(FROM PLUVIOGRAPH RECORDS.)

Date.	Hours.													
	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14
1	..	..	..	..	..	0·02	..	..	..	..	..	..	..	0·01
2	..	0·02	..	..	..	0·01	..	0·01	..	0·07	..	..	..	..
3	..	..	..	..	..	..	0·02	0·07	..	..	..	0·01	..	0·03
4	..	0·01	0·04	0·01	..	..	..	..	..	0·02	0 01	..	..	..
5	0·06	0·11	0·15	0·07	0·17	0·41	0·47	0·33	0·14	0·06	0·10	0·02	0·10	0·29
6	..	..	..	0·01	..	..	..	..	..	..	..	0·01	0·01	..
7	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	0·02	..	0·01	..	0·07	..	..	..	0·02
9	..	..	0·07	0·01	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	0·01	..	..	..	..	..	..	..	..
12	..	..	..	..	0·02	..	..	..	..	0·20	..	0·09	..	..
13	..	..	..	..	..	..	..	0·01	..	0·03	..	..	0·05	0·01
14	..	..	..	..	..	..	0·01	0·04	..	..	..	..	..	0·06
15	..	..	..	..	..	0·01	..	0·01	..	0·06	..	..	..	..
16	..	0·02	..	..	..	..	..	..	..	..	..	..	..	0·02
17	..	..	..	..	..	0·01	..	..	0·04	..	0·01	..	..	..
18	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	0·03	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	..	..	..	..	..	..	..	..	..	..	0·03	..	..
24	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26	..	..	..	..	..	..	0·15	..	..	..	..	..	..	..
27	..	..	..	..	..	..	..	..	..	..	..	..	0·03	0·01
28	..	..	..	0·15	0·09	..	0·06	..	..	..	..	..	..	..
29	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
31	..	..	..	..	..	..	..	..	..	..	0·03	0·01	..	0·01
Total ..	0·09	0·16	0·26	0·25	0·28	0·49	0·71	0·48	0·18	0·51	0·15	0·17	0·19	0·46

SEPTEMBER.†

6	..	..	..	..	0 05	0 02	..	0·03	0·01	..	..	..	..	..
7	0·03	0·02	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	..	..	..	..	..	0·11
9	..	..	..	..	0·08	0·13	0·12	0·09	0·06	0·09	0·11	1·76	0·05	0·12
10	2·19	2·50	3·20	2·54	2·03	2·04	2·19	1.29	0·58	0·37	0·12	0·54	0·41	0·40
11	0 64	0·33	0·12	0·60	0·26	0·65	0·60	0·2	0·23	0·30	..	..	..	..
12	..	..	0·03	..	0 02	..	..	0·01	..	0·01	0·65	0·18	0·08	0·02
13	0·04	0·02	..	..	..	0·01	..	..	..	0·02	0·24	0·58	0·29	..
14	..	..	..	..	0·04	0·05	..	0·02	..	..	..	..	0·23	0·01
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	0·76	1·29	0·41	..	..	0·09	..	..	..	..	..
20	..	..	..	..	..	0·01	0·08	0·01	..	..	..	..	..	..
21	..	..	..	0·16	..	..	..	..	..	..	..	..	..	..
Total .	2·90	2·87	4·05	4·06	3·77	3·32	2·99	1·72	0·97	0·79	1·12	3·06	1·06	0·66

† No rainfall occurred on those dates which are not included in this table.

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

AUGUST.

(FROM PLUVIOGRAPH RECORDS.)

Hours.										Daily total.	Maximum fall in one hour.	Time of occurrence.	Daily* total by Newman Raingauge.	Date.
14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24			H. to H.		
..	0·03	0·01	..	..	..	..	0·11	..	..	0·18	0·11	21 22	0·19	1
..	..	..	..	..	0·06	..	0·01	..	0·01	0·19	0·07	9 10	0·21	2
..	0·07	..	..	..	..	..	..	0·02	0·01	0·23	0·07	7 8	0·25	3
..	0·02	..	0·01	..	..	..	..	0·06	0·03	0·21	0·06	22 23	0·28	4
0·12	0·03	0·06	0·23	0·37	0·11	..	..	..	..	**3·40**	**0·47**	6 7	**3·61**	5
..	..	..	..	..	..	..	..	..	..	0·03	0·01	3 4	0·04	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	7
0·05	..	..	..	..	0·01	..	0·01	..	..	0·19	0·07	9 10	0·21	8
..	..	..	..	..	..	..	..	..	..	0·08	0·07	2 3	0·11	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	10
..	..	0·02	0·05	..	..	..	..	..	..	0·08	0·05	17 18	0·07	11
..	..	..	..	..	..	..	..	..	..	0·31	0·20	9 10	0·36	12
..	0·02	..	..	..	..	..	0·02	..	..	0·14	0·05	12 13	0·16	13
..	0·01	..	..	..	0·02	0·01	..	..	..	0·15	0·06	13 14	0·15	14
..	..	..	..	..	..	..	0·02	..	..	0·10	0·06	9 10	0·11	15
..	..	..	..	..	..	..	..	..	..	0·04	0·02	1 2	0·04	16
..	..	0·01	..	..	..	..	0·01	..	..	0·08	0·04	8 9	0·11	17
..	..	..	..	..	..	..	..	..	..	..	..	..	..	18
..	..	..	..	..	..	..	..	..	..	..	..	..	..	19
0·01	..	..	..	..	..	..	..	..	..	0·01	0·01	14 15	0·02	20
..	..	..	..	..	..	..	..	..	..	..	..	..	..	21
..	..	..	..	..	..	..	..	..	..	0·03	0·03	0 1	0·05	22
..	..	..	..	..	..	..	..	..	..	0·03	0·03	11 12	0·03	23
..	..	..	..	..	..	..	..	..	..	..	..	..	..	24
..	..	..	..	..	..	..	..	..	..	..	..	..	..	25
..	..	..	..	..	..	..	..	..	..	0·15	0·15	6 7	0·14	26
..	..	..	..	..	..	..	0·01	..	0·01	0·06	0·03	12 13	0·06	27
..	..	..	..	..	..	..	..	..	..	0·30	0·15	3 4	0·32	28
..	..	..	..	..	..	..	..	..	..	..	..	..	..	29
..	..	..	..	..	..	..	..	..	..	..	..	..	..	30
..	..	..	..	..	..	..	..	..	..	0·05	0·03	10 11	0·08	31
0·18	0·18	0·10	0·29	0·37	0·20	0·01	0·19	0·08	0·06	6·04	..	..	6·60	Total.

SEPTEMBER†.

0·10	0·05	0·03	1·68	1·53	0·49	0·18	0·07	0·08	0·02	4·34	1·68	17 18	4·49	6
..	..	..	..	..	..	0·01	0·13	0·05	..	0·24	0·13	21 22	0·25	7
..	..	..	..	..	..	..	..	0·30	0·39	0·80	0·39	23 24	0·89	8
0·12	..	..	0·01	..	..	..	0·06	0·02	0·90	3·72	1·76	11 12	3·85	9
0·07	0·03	..	..	..	0·05	0·38	0·07	0·21	0·02	**21·93**	**3·90**	2 3	**21·59**	10
..	..	..	..	..	..	..	..	..	..	4·00	0·65	5 6	4·68	11
..	..	..	..	0·06	..	0·04	0·29	0·22	..	1·61	0·65	10 11	1·69	12
0·04	..	0·25	0·09	..	0·04	..	0·09	0·05	0·07	1·83	0·58	11 12	1·97	13
0·35	0·14	0·10	0·02	0·06	..	..	..	..	..	1·02	0·35	14 15	1·09	14
..	..	..	..	..	..	..	..	0·21	0·01	0·22	0·21	22 23	0·25	15
..	..	..	..	..	..	0·02	0·01	..	..	0·03	0·02	20 21	0·04	16
..	..	..	..	..	..	..	..	..	..	..	..	..	..	17
..	..	..	..	..	..	..	..	..	..	..	..	..	..	18
..	..	..	..	..	..	..	..	..	..	2·55	1·29	4 5	2·69	19
..	..	..	..	..	..	..	..	..	0·02	0·12	0·08	6 7	0·12	20
..	..	..	..	..	..	..	..	..	..	0·16	0·16	3 4	0·17	21
0·68	0·22	0·38	1·80	1·65	0·58	0·63	0·72	1·14	1·43	**42·57**	..	..	43·77	Total.

* Adopted as the standard instrument in the Observatory since 1845.

† No rainfall occurred on those dates which are not included in this table.

RAINFALL (IN INCHES), 1930.

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

(FROM PULVIOGRAPH RECORDS.)

OCTOBER.†

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28	..	0·01	0·07	..	..	..	..	..	..	..	..	..	..	..
29	..	0·01	..	..	..	..	..	..	..	..	0·03	..	..	..
30	..	..	0·03	0·01	..	..	..	..	..	..	..	..	..	..
31	..	..	..	..	..	..	..	0·04	..	..	..	..	..	..
Total .	..	0·02	0·10	0·01	..	..	..	0·04	..	..	0 03	..	..	..

† No rainfall occurred on those dates which are not included in this table.

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

(FROM PLUVIOGRAPH RECORDS.)

OCTOBER.†

Hours.										Daily total.	Maximum fall in one hour.	Time of occurrence.	Daily* total by Newman Raingauge.	Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			H. to H.		
..	..	..	0·50	..	0·78	0·01	0·04	..	..	**1·33**	**0·78**	19 20	**1·51**	6
..	..	..	..	..	..	..	0·09	..	..	0·09	0·09	21 22	0·10	10
..	..	..	0·12	0·02	..	..	..	..	..	0·14	0·12	17 18	0·16	11
..	..	..	0·13	0·28	..	..	..	..	..	0·49	0·28	18 19	0·55	28
..	..	..	..	..	0·03	..	..	..	..	0·07	0·03	10 11	0·09	29
..	..	..	..	..	..	..	..	..	..	0·04	0·03	2 3	0·05	30
..	..	..	..	..	..	..	..	..	..	0·04	0·04	7 8	0·04	31
..	..	..	0·75	0·30	**0·81**	0·01	0·13	..	..	2·20	..	..	2·50	

* Adopted as the standard instrument in the Observatory since 1845.

† No rainfall occurred on those dates which are not included in this table.

NOTE.—There was a fall of 0·02″ of rain on the 19th May between 5h and 6h. The months of January to April, November and December were dry.

Total fall of rain in the year was 85·29″ by Pluviograph and 89·98″ by Newman; the difference is due to the difference in heights of the receiving funnels of the two instruments.

Total number of rainy days in the year was 70 according to Pluviograph and 74 according to Newman, assuming a "rainy day" to be one on which a tenth of an inch or upwards has fallen.

The greatest fall of rain during a day in the year, that of 10th September, was 21·93″ by Pluviograph and 21·59 by Newman.

WIND VELOCITY, 1930.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JANUARY. (IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	8	9	9	8	7	7	8	8	6	6	10	14	15	15	16
2	9	9	9	10	8	7	7	4	5	6	7	10	10	11	12
3	7	6	5	4	6	5	7	8	6	5	4	4	5	6	6
4	3	4	5	4	4	4	5	6	6	4	5	5	10	13	14
5	5	5	6	7	8	7	7	6	6	6	5	9	14	14	18
6	8	8	6	7	6	7	7	5	6	6	5	10	13	14	14
7	5	5	3	6	6	6	6	8	8	7	7	5	7	7	7
8	5	4	5	8	7	9	11	10	10	7	8	5	5	8	8
9	5	7	10	8	8	9	9	8	6	6	5	5	4	7	11
10	8	5	8	7	6	5	5	5	7	10	7	4	7	9	9
11	5	5	7	7	7	7	8	8	9	7	4	4	6	8	8
12	7	6	7	7	8	9	9	9	8	6	5	3	5	7	8
13	4	3	5	5	5	3	3	5	7	7	4	4	10	14	14
14	8	9	8	7	7	8	11	13	15	12	13	15	15	16	16
15	5	6	9	8	6	6	6	8	6	6	11	12	10	12	11
16	8	8	8	7	8	6	7	7	4	6	9	4	8	10	13
17	8	6	5	5	6	5	6	5	5	4	5	5	7	10	14
18	7	5	6	6	5	5	5	5	7	5	4	10	11	12	15
19	7	5	5	5	6	7	7	5	7	6	5	4	8	10	12
20	7	8	8	7	7	7	7	6	6	4	5	9	12	13	14
21	8	7	7	8	10	9	8	6	7	6	7	6	10	13	15
22	5	6	7	9	11	10	10	8	8	7	5	3	6	8	10
23	3	4	7	6	5	7	7	8	8	8	5	4	4	7	8
24	4	3	5	4	6	7	7	8	9	9	7	5	7	11	10
25	7	9	8	7	10	9	6	4	6	6	5	9	9	8	9
26	5	5	7	10	9	8	11	8	6	6	5	5	11	14	12
27	6	11	13	10	10	8	5	5	3	6	7	9	12	14	14
28	4	7	6	8	9	6	5	7	8	5	9	10	7	9	12
29	12	12	12	11	7	5	5	3	5	5	7	14	16	17	18
30	15	11	8	6	5	5	6	5	4	6	10	16	18	17	16
31	11	10	9	6	8	7	6	5	7	9	12	10	10	10	10
Mean ..	6·7	6·7	7·2	7·0	7·1	6·8	7·0	6·6	6·8	6·4	6·7	7·5	9·4	11·1	12·1

FEBRUARY.

1	6	7	6	7	7	9	6	8	9	11	8	11	11	9	10
2	8	8	8	6	5	6	7	11	13	11	12	10	7	12	12
3	7	7	8	10	12	12	12	12	11	10	10	9	7	5	9
4	8	6	5	7	9	9	9	8	10	10	9	9	8	12	9
5	8	5	6	7	10	10	11	11	9	10	10	13	10	15	17
6	9	10	10	8	11	13	14	15	16	15	14	12	11	10	8
7	6	8	12	15	17	15	15	17	16	13	10	9	11	8	12
8	5	4	9	7	6	10	7	7	9	12	6	13	16	17	14
9	9	13	13	16	15	16	15	11	10	9	8	9	10	11	13
10	4	4	5	5	5	5	5	6	8	12	12	11	13	13	15
11	7	7	9	10	10	9	13	14	16	13	9	8	8	10	12
12	8	7	7	8	9	12	15	14	14	14	12	9	9	9	11
13	6	7	7	11	10	9	12	12	13	14	13	9	8	6	9
14	7	9	14	15	14	13	13	13	12	11	12	10	9	8	9
15	5	5	9	9	8	8	9	7	7	5	3	4	6	8	10
16	5	5	5	7	7	8	8	8	8	7	5	4	7	10	10
17	3	4	4	5	6	9	9	9	7	5	3	5	8	8	10
18	6	5	6	8	8	7	6	6	7	7	6	4	5	8	9
19	2	4	5	7	5	7	5	7	6	6	6	10	11	9	10
20	7	12	11	11	9	7	7	8	6	6	7	11	13	14	14
21	4	6	11	11	11	10	7	7	6	5	5	8	12	12	12
22	8	12	12	12	13	14	9	8	8	5	9	7	10	11	16
23	8	10	11	8	7	4	3	5	5	5	4	7	9	12	15
24	7	7	7	7	6	5	10	11	11	5	4	7	10	11	10
25	5	7	9	11	11	7	6	4	5	5	4	5	9	11	12
26	3	4	5	5	7	6	5	7	9	8	6	5	8	10	11
27	9	5	8	7	7	7	7	7	7	6	4	6	9	8	10
28	8	7	6	8	8	7	7	7	5	5	10	13	14	15	16
Mean ..	6·4	7·0	8·1	8·9	9·0	9·0	9·0	9·3	9·4	8·7	7·9	8·5	9·6	10·4	11·6

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JANUARY. (IN MILES PER HOUR.)

Hours.									Mean.	Mean by R. Beckley's Anemograph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
16	16	16	14	11	10	8	7	8	10·5	7·6	16 50	23	10 5	3	1
13	15	13	11	9	9	8	8	5	9·0	6·5	16 56	19	7 55	2	2
8	8	7	9	8	4	3	4	4	**5·8**	**4·0**	4 12	12	11 25	2	3
13	14	14	13	12	12	9	5	5	7·9	6·0	14 25	20	11 50	2	4
17	17	16	15	14	12	9	9	9	10·0	7·5	14 47	26	9 20	2	5
14	12	12	14	13	12	12	9	7	9·5	7·4	14 45	22	9 0	**1**	6
9	10	12	14	13	11	9	6	5	7·6	5·7	18 12	19	2 50	2	7
7	7	7	6	8	8	7	6	7	7·2	5·6	6 20	14	1 32	3	8
10	10	6	8	10	10	10	9	10	8·0	5·8	2 22	17	10 17	3	9
9	8	6	5	5	5	5	6	5	6·5	4·6	16 1	12	11 50	2	10
8	9	7	4	3	3	4	4	4	6·1	4·2	16 40	11	20 50	2	11
10	11	12	9	7	4	3	6	5	7·1	5·2	17 12	15	11 30	2	12
14	15	16	17	15	11	6	6	6	8·3	6·2	17 55	25	6 53	2	13
15	16	14	11	12	13	10	8	7	11·6	8·8	14 35	23	3 12	4	14
13	16	18	15	16	16	16	16	13	10·9	8·1	19 55	26	9 10	2	15
13	13	12	11	10	11	9	9	10	8·8	6·6	15 50	19	8 8	2	16
14	15	14	12	13	13	12	9	7	8·5	6·7	16 55	22	10 15	1	17
16	14	11	9	8	9	12	10	9	8·6	6·2	14 10	22	10 53	2	18
13	13	13	12	14	12	9	6	9	8·3	6·1	16 8	18	11 6	1	19
14	15	15	14	13	14	12	10	9	9·8	7·1	16 40	21	9 25	2	20
16	15	14	17	19	20	16	8	6	10·7	7·9	20 1	**31**	9 30	3	21
10	10	8	8	4	5	4	5	**3**	7·0	5·2	14 57	16	11 27	3	22
9	11	12	12	12	8	5	6	5	7·1	5·3	14 58	16	3 15	2	23
10	11	10	9	8	5	5	5	7	7·2	5·3	16 40	14	3 20	2	24
13	14	16	16	14	11	9	8	8	9·2	6·8	17 40	21	10 50	1	25
14	15	16	16	15	16	12	9	4	10·0	7·6	18 30	23	10 25	2	26
15	17	20	17	11	5	4	3	4	9·5	7·6	17 8	28	8 10	1	27
14	15	13	13	16	12	8	10	12	9·4	7·0	19 45	22	10 23	1	28
21	**22**	21	19	19	17	15	15	15	**13·0**	**10·0**	16 10	30	7 40	1	29
16	16	17	18	16	14	13	11	12	11·7	8·7	12 40	26	9 12	1	30
11	8	7	9	14	14	8	7	6	8·9	6·4	18 42	21	6 20	2	31
12·7	**13·2**	12·7	12·2	11·7	10·5	8·8	7·7	7·3	8·8	6·6					Mean.

FEBRUARY.

12	14	17	18	19	15	15	9	9	10·5	7·8	19 45	27	7 50	3	1
12	13	14	15	15	14	12	8	7	10·3	7·4	19 15	21	12 30	4	2
12	11	10	11	11	12	10	9	8	9·8	6·9	15 20	18	10 40	3	3
11	16	15	14	9	9	8	10	10	9·6	7·3	16 35	21	12 40	4	4
18	20	20	20	20	18	18	10	9	**12·7**	**9·5**	17 8	**28**	1 20	4	5
12	14	15	16	14	14	12	8	5	11·9	8·6	18 10	21	14 15	4	6
11	11	10	10	10	7	6	4	6	10·8	7·6	7 55	22	22 35	3	7
13	12	14	16	15	11	11	13	10	10·7	8·4	13 5	23	1 15	3	8
13	10	8	8	6	5	5	6	4	10·1	7·4	3 30	24	23 45	3	9
16	20	**21**	20	19	18	14	10	7	11·2	8·6	17 2	28	8 15	3	10
16	18	17	17	18	19	15	14	9	12·4	9·3	20 43	27	12 28	3	11
14	14	14	18	17	13	9	7	5	11·2	8·3	17 50	23	23 0	4	12
11	13	15	14	16	14	10	9	9	10·7	7·8	19 40	22	13 35	3	13
9	10	12	15	16	15	13	10	6	11·5	8·3	19 40	22	13 58	4	14
13	17	18	14	12	8	6	8	7	8·6	6·2	16 45	25	11 5	3	15
12	11	10	9	5	3	6	5	4	7·0	5·2	15 20	15	0 35	3	16
10	12	11	8	6	4	5	5	5	6·7	4·9	17 40	15	1 0	2	17
8	9	8	9	6	3	3	4	**2**	**6·3**	4·7	16 15	14	21 40	**1**	18
12	13	13	14	13	5	7	6	4	7·8	5·8	19 10	23	0 25	2	19
15	17	13	10	7	8	5	4	4	9·4	6·6	16 35	22	10 19	2	20
14	14	15	13	10	8	7	7	6	9·2	6·6	17 25	21	10 50	2	21
18	18	16	14	12	12	10	7	8	11·2	8·1	16 15	26	9 20	3	22
16	13	11	9	8	8	5	11	8	8·4	5·8	14 55	23	6 10	2	23
11	12	12	12	10	5	5	5	5	8·1	5·9	18 15	17	9 35	2	24
11	12	9	8	7	7	4	3	3	7·3	5·3	14 45	18	11 35	2	25
11	13	15	12	11	7	5	5	6	7·7	5·6	17 30	22	22 0	3	26
11	12	12	11	10	8	6	4	5	7·7	5·5	17 10	18	22 20	2	27
16	14	13	14	13	9	10	8	8	10·0	7·3	14 15	24	9 55	2	28
12·8	**13·7**	13·5	13·2	12·0	10·0	8·6	7·5	6·4	9·6	7·0					Mean.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH. (IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	7	7	9	8	7	7	7	5	6	5	11	10	11	12	15
2	14	10	9	9	11	9	8	12	7	6	5	8	12	14	18
3	13	12	15	14	14	13	9	6	3	4	4	9	15	13	15
4	4	3	4	5	6	5	7	6	5	5	4	6	11	12	14
5	6	7	5	5	6	7	5	5	4	4	3	3	7	7	10
6	10	6	3	5	6	5	5	5	3	3	4	7	8	8	10
7	8	8	6	6	6	7	7	7	4	4	3	6	12	12	12
8	5	4	4	6	5	5	6	5	7	12	14	18	16	15	15
9	10	7	5	6	7	5	6	8	7	6	4	6	10	13	13
10	12	11	10	9	5	6	7	7	6	6	6	8	8	11	13
11	8	9	10	10	8	5	5	5	5	4	5	8	10	11	12
12	6	3	2	2	2	3	3	3	1	4	6	12	15	16	15
13	8	7	5	4	4	4	3	3	6	8	7	11	13	12	14
14	8	10	8	7	4	4	4	3	4	4	6	7	8	9	11
15	15	15	9	7	7	6	6	3	5	8	6	7	8	11	11
16	4	7	7	13	7	9	8	8	8	8	7	7	10	12	11
17	5	6	7	6	4	4	5	6	5	5	10	12	14	16	16
18	4	5	8	6	7	7	6	5	6	4	9	10	13	14	16
19	9	10	11	12	11	8	8	6	3	6	9	10	10	12	16
20	7	6	6	6	4	3	3	2	2	5	8	9	11	12	12
21	5	6	5	3	2	2	3	4	3	3	7	8	8	11	10
22	6	3	4	4	5	5	8	6	4	3	7	7	8	8	8
23	9	6	6	5	5	5	4	4	4	4	7	8	11	12	12
24	7	6	7	7	6	7	5	4	5	6	11	12	10	10	11
25	12	10	8	7	7	7	5	7	4	6	6	8	9	9	10
26	6	4	3	3	2	1	2	1	2	2	5	6	7	9	10
27	6	5	6	5	4	4	4	6	5	4	5	6	9	11	13
28	7	3	3	4	4	4	3	3	3	3	4	4	7	9	11
29	12	5	5	6	5	5	5	5	5	4	3	8	12	16	17
30	11	9	10	6	6	6	6	5	5	9	9	10	13	14	14
31	11	8	7	5	5	5	6	5	6	5	7	9	11	12	13
Mean ..	8·2	7·0	6·7	6·5	5·9	5·6	5·5	5·2	4·6	5·2	6·5	8·4	10·5	11·7	12·8

APRIL.

1	11	11	10	7	6	4	4	5	5	4	7	10	12	12	10
2	3	2	2	4	5	2	9	9	4	1	4	6	8	11	13
3	3	1	1	2	3	3	4	7	4	4	4	8	10	9	10
4	2	3	4	3	3	3	11	13	12	6	4	7	7	11	12
5	14	9	5	5	5	6	4	3	4	9	12	13	12	14	15
6	9	5	5	4	4	3	4	4	6	7	8	10	12	14	13
7	3	3	4	4	4	4	4	2	3	4	6	8	10	11	12
8	9	9	8	8	4	3	2	1	3	6	8	9	10	10	11
9	3	3	4	5	5	5	4	4	3	7	10	12	14	16	16
10	5	6	7	7	5	5	5	6	6	8	7	8	9	14	14
11	8	8	9	10	5	5	4	4	4	5	8	9	10	13	14
12	6	5	3	3	4	5	4	7	9	6	7	8	10	16	22
13	11	10	11	9	9	8	8	6	7	9	12	13	12	13	16
14	7	8	9	9	12	9	1	1	2	4	10	8	9	12	12
15	7	6	6	9	8	8	8	7	8	8	9	8	10	10	11
16	6	5	3	2	2	1	8	11	6	3	4	10	11	9	10
17	6	7	7	4	2	4	7	5	4	5	6	7	8	11	11
18	5	6	5	5	3	4	1	1	2	3	4	7	9	11	13
19	13	10	9	8	5	4	4	4	4	4	5	10	13	13	13
20	10	7	5	4	4	5	5	7	9	12	15	18	22	21	20
21	16	12	10	5	6	5	3	3	3	6	7	7	9	10	11
22	10	5	5	5	6	7	6	4	9	12	15	18	18	19	22
23	10	4	4	3	2	5	8	6	3	5	9	10	11	13	16
24	7	7	6	5	4	3	3	4	5	7	6	7	8	9	11
25	6	5	5	3	4	4	4	3	3	4	7	7	5	6	8
26	4	4	4	5	5	7	5	3	6	7	7	7	8	8	10
27	3	3	4	5	4	2	3	4	4	3	5	9	13	12	12
28	6	3	3	3	3	2	2	2	4	7	9	11	12	13	14
29	7	6	5	4	5	5	5	7	9	9	10	12	13	14	15
30	8	7	3	3	1	2	5	14	16	15	13	14	13	14	14
Mean ..	7·3	6·0	5·5	5·1	4·6	4·4	4·8	5·2	5·6	6·3	7·9	9·7	10·9	12·3	13·4

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH. (IN MILES PER HOUR.)

Hours.									Mean.	Mean by R. Beckley's Anemograph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
16	16	17	15	8	8	8	9	12	9·9	7·3	16 48	24	9 10	3	1
19	**20**	18	17	14	6	7	6	9	**11·1**	8·6	16 48	**28**	10 15	3	2
16	16	14	14	15	11	9	7	4	11·0	**8·8**	15 50	24	10 25	1	3
14	16	19	16	16	12	8	6	7	8·8	7·3	17 25	28	8 14	2	4
11	11	12	14	15	12	10	9	7	7·7	6·0	18 50	23	8 50	1	5
8	7	6	7	7	7	7	6	6	6·2	4·4	12 45	12	8 7	2	6
12	9	8	9	8	9	9	5	5	7·6	5·6	12 30	17	10 46	2	7
13	9	10	9	10	10	10	10	11	9·5	7·2	12 7	24	8 6	3	8
14	13	12	14	12	7	5	7	11	8·7	6·9	18 28	20	11 45	2	9
13	14	14	14	12	6	4	5	5	8·8	6·9	16 30	20	20 50	2	10
13	13	11	10	10	6	3	5	7	8·0	6·9	16 22	18	21 8	2	11
15	15	14	13	12	12	10	10	10	8·5	7·1	13 7	23	8 30	0	12
15	16	16	16	15	11	7	6	6	9·0	7·7	15 55	23	7 50	2	13
11	12	12	13	13	10	8	8	**11**	8·1	6·9	17 50	18	9 35	0	14
11	10	10	7	4	2	2	4	5	7·5	5·4	0 52	23	8 10	1	15
11	9	7	6	7	6	8	7	4	8·0	6·3	3 37	20	11 8	2	16
15	14	14	14	12	6	6	5	4	8·8	7·2	13 28	22	9 28	0	17
16	17	19	19	16	7	8	10	9	10·0	8·0	18 45	26	10 5	1	18
17	17	15	8	8	7	6	7	7	9·7	7·7	15 45	26	8 50	1	19
12	9	6	5	2	3	3	2	3	5·9	4·7	12 59	17	8 30	0	20
10	12	6	2	2	3	4	6	5	**5·4**	4·4	16 30	16	9 38	1	21
9	10	7	4	2	1	2	7	10	5·7	4·3	12 54	15	20 20	1	22
11	11	8	7	7	12	12	10	9	7·9	6·5	21 7	17	9 45	1	23
10	9	8	6	2	7	11	12	13	8·0	6·3	12 5	17	7 15	1	24
8	10	8	6	7	5	8	6	6	7·5	6·0	0 35	15	11 20	1	25
11	11	9	9	10	11	13	12	11	6·7	5·5	21 33	19	9 30	0	26
14	12	13	10	11	10	9	8	8	7·8	6·5	14 22	18	9 59	1	27
15	15	14	14	13	12	13	13	12	8·0	6·6	16 20	21	11 4	1	28
16	15	14	13	10	11	11	13	11	9·5	7·9	13 50	25	9 58	0	29
16	15	14	12	14	10	4	12	13	10·1	8·3	15 33	23	7 45	1	30
14	13	11	11	11	9	4	4	6	8·3	6·8	15 5	21	9 40	2	31
13·1	12·8	11·8	10·8	9·8	8·0	7·4	7·6	8·0	8·3	6·6					Mean.

APRIL.

10	10	10	7	7	5	3	2	2	7·3	6·0	12 56	18	9 18	1	1
13	11	9	6	4	2	2	3	3	5·7	4·7	16 45	18	9 30	0	2
9	9	9	7	9	8	5	2	2	**5·5**	**3·2**	14 23	15	10 28	1	3
13	12	12	12	11	12	11	10	13	8·6	6·7	23 59	19	0 0	2	4
15	14	12	13	10	7	4	7	11	9·3	7·4	15 58	20	20 20	2	5
14	13	13	12	10	4	4	2	3	7·6	6·2	15 26	20	10 4	1	6
12	12	10	8	9	10	8	6	6	6·8	5·2	14 25	17	7 27	0	7
11	10	11	9	8	6	4	5	4	7·0	5·6	17 30	16	7 45	0	8
16	15	15	14	9	9	9	7	5	8·7	7·2	15 58	24	8 54	1	9
14	13	12	10	7	5	6	8	8	8·1	7·0	15 10	20	8 10	2	10
15	15	14	13	12	10	12	12	9	9·5	7·8	15 13	22	9 34	0	11
23	**24**	20	18	18	14	10	7	10	10·8	8·9	15 45	**31**	10 2	0	12
16	15	14	13	13	12	6	7	7	10·7	9·0	14 45	23	8 55	2	13
10	8	7	6	11	9	5	5	6	7·5	5·6	13 40	20	7 30	0	14
10	11	8	7	12	10	9	10	8	8·7	6·8	14 50	18	1 35	2	15
10	10	7	4	8	9	9	7	8	6·9	4·7	11 58	17	5 58	0	16
11	9	7	5	4	4	3	3	2	6·0	4·5	13 25	14	4 12	2	17
13	12	11	10	9	9	8	11	11	7·2	5·3	15 15	17	9 40	1	18
15	15	14	14	8	9	6	10	12	9·3	7·1	15 30	22	10 31	2	19
22	22	18	14	11	11	8	6	6	11·7	9·0	13 7	22	23 25	3	20
13	12	13	8	7	6	9	12	12	8·5	6·0	0 25	21	7 3	1	21
21	21	20	18	17	18	17	14	11	**13·3**	**10·3**	16 26	30	7 40	3	22
16	18	17	16	15	11	7	8	9	9·4	7·8	14 27	22	9 7	1	23
11	12	12	12	12	11	10	9	7	7·8	6·4	17 50	17	8 54	2	24
9	10	10	11	8	5	4	4	3	5·7	4·3	16 20	15	8 25	1	25
10	8	9	8	8	9	7	4	3	6·5	5·2	15 45	15	8 22	1	26
12	12	11	10	8	7	9	11	9	7·3	6·1	14 23	18	10 20	2	27
14	15	14	13	10	10	13	12	9	8·5	6·9	16 58	21	7 40	1	28
15	16	16	15	14	10	10	10	9	10·0	8·5	16 6	24	2 50	3	29
12	11	7	6	5	5	7	10	9	8·8	6·2	8 16	22	5 5	1	30
13·5	13·2	12·1	10·6	9·8	8·6	7·5	7·5	7·1	8·3	6·5					Mean.

MAY.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

(IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	5	5	4	3	6	11	11	10	9	11	10	12	10	11	12
2	8	9	9	10	12	12	12	13	12	12	12	10	11	11	10
3	3	4	6	4	2	3	1	2	3	5	6	8	9	9	13
4	10	11	11	8	7	5	4	3	3	3	6	8	12	14	15
5	9	4	3	5	6	9	13	13	9	6	7	10	11	12	14
6	3	5	8	8	7	5	3	1	2	6	9	11	12	13	14
7	5	3	2	4	4	5	4	2	4	6	7	8	12	13	15
8	4	3	5	6	3	3	2	5	5	4	3	6	9	10	11
9	8	5	4	4	4	3	2	3	2	5	5	7	8	11	14
10	3	3	3	4	3	3	2	3	2	3	6	8	9	12	12
11	5	6	7	7	7	7	7	7	7	8	9	10	11	11	11
12	9	8	8	9	8	8	8	7	7	8	10	11	12	12	12
13	7	7	5	6	6	6	4	4	6	6	6	8	9	10	10
14	8	8	8	9	7	9	8	8	7	8	9	10	11	12	11
15	9	8	7	7	7	7	7	8	7	9	9	8	8	8	9
16	8	9	9	10	9	9	9	7	8	7	6	7	9	9	10
17	9	9	7	9	7	6	5	4	4	5	5	7	8	9	10
18	6	5	5	5	4	3	4	4	6	6	7	9	12	13	14
19	6	6	6	5	5	7	7	4	6	8	10	11	11	13	15
20	6	5	6	5	5	5	4	4	5	7	8	8	11	13	16
21	3	5	7	6	7	5	4	4	6	9	9	8	10	10	11
22	3	2	3	3	3	2	3	3	3	7	9	11	13	13	13
23	2	2	4	8	11	10	9	9	10	11	11	12	15	14	15
24	5	5	6	4	4	4	3	4	7	7	8	10	10	11	13
25	9	8	6	6	5	3	3	4	4	5	7	7	8	10	10
26	7	6	5	4	3	4	4	6	4	7	9	10	12	13	12
27	6	5	5	5	5	5	5	5	7	10	9	10	10	12	13
28	8	7	7	5	5	5	4	3	5	7	10	11	13	13	14
29	9	8	8	7	7	5	5	5	6	6	7	8	8	9	10
30	7	8	7	8	6	6	6	6	6	6	8	8	10	10	11
31	10	9	8	8	8	9	9	10	8	9	10	10	10	11	11
Mean ..	6·5	6·1	6·1	6·2	5·9	5·9	5·5	5·5	5·8	7·0	8·0	9·1	10·5	11·4	12·3

JUNE.

1	9	10	11	10	10	11	10	9	8	9	9	9	9	9	11
2	7	7	9	10	7	5	5	5	6	7	8	10	11	12	11
3	13	11	10	11	10	8	8	8	7	7	7	7	9	8	9
4	10	9	11	9	9	9	10	8	9	9	8	9	11	11	10
5	8	7	7	9	7	6	4	8	9	9	10	10	9	11	11
6	8	7	6	7	7	5	2	3	6	7	6	7	8	8	10
7	6	5	5	5	3	6	9	11	8	5	4	6	7	9	11
8	3	10	7	5	3	2	2	1	3	2	3	5	8	13	13
9	10	10	12	11	11	5	5	9	6	4	5	6	7	12	14
10	6	4	9	7	9	12	11	14	18	16	19	16	19	19	24
11	15	19	18	18	16	19	17	17	17	18	24	19	24	25	21
12	17	15	18	13	14	14	14	14	16	19	17	22	22	17	20
13	12	11	11	11	11	14	13	13	13	12	12	14	11	11	9
14	7	7	8	9	9	9	12	11	9	11	10	11	12	11	14
15	11	13	10	10	12	11	13	11	10	9	17	14	10	14	13
16	13	12	14	11	15	12	10	14	11	13	9	9	9	6	6
17	13	13	12	9	10	11	10	12	8	10	14	18	22	20	21
18	14	12	13	13	11	11	12	11	15	17	16	16	13	15	15
19	15	14	13	12	14	13	11	11	9	10	13	14	12	12	11
20	15	14	13	11	11	10	16	21	20	19	18	16	17	17	20
21	27	24	15	13	13	14	17	15	14	18	17	17	24	24	22
22	15	15	18	19	19	18	18	16	21	19	14	14	8	7	11
23	16	16	11	14	15	18	21	17	15	9	18	16	15	18	24
24	12	12	13	13	13	14	15	11	14	12	13	14	17	21	20
25	20	14	11	10	13	16	14	15	13	10	12	14	12	13	14
26	17	16	14	13	10	12	7	6	6	8	6	11	16	21	20
27	14	13	13	11	8	6	7	12	4	6	8	19	13	10	13
28	14	15	22	17	15	13	13	18	15	15	19	14	17	11	17
29	17	18	19	19	18	17	16	16	14	15	16	16	16	16	20
30	19	18	18	21	21	22	23	22	22	20	22	22	20	18	18
Mean ..	12·8	12·4	12.4	11·7	11·5	11·4	11·5	12·0	11·5	11·5	12·5	13·2	13·6	14·0	15·1

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY. (IN MILES PER HOUR.)

Hours.									Mean.	Mean by R. Beckley's anemograph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
11	11	7	6	4	4	4	5	7	7·9	5·4	15 43	19	19 5	2	1
9	9	9	8	5	3	3	3	3	9·0	6·5	7 45	19	20 22	2	2
13	12	8	7	7	8	6	4	5	6·2	4·7	14 33	18	6 50	0	3
16	16	15	14	15	14	13	12	12	10·3	8·3	18 35	24	8 20	0	4
15	14	12	11	9	7	7	8	5	9·1	7·3	16 50	19	9 55	3	5
14	14	12	12	12	10	5	4	5	8·1	6·6	15 58	20	8 0	0	6
16	16	14	13	12	10	3	4	4	7·7	6·3	16 29	21	7 55	0	7
12	12	8	9	14	16	17	12	9	7·8	6·0	21 26	26	10 37	1	8
15	17	13	11	12	9	5	4	4	7·3	5·8	16 17	22	8 25	0	9
13	9	7	9	8	8	5	4	5	6·0	4·2	15 24	19	8 12	0	10
11	10	10	10	9	9	9	8	9	8·5	5·2	16 42	18	6 44	2	11
12	11	10	8	9	10	9	8	8	9·3	6·8	13 40	18	8 5	3	12
10	12	11	9	9	9	9	9	8	7·7	5·0	17 6	17	6 35	2	13
11	10	8	7	7	7	7	9	9	8·7	6·3	14 3	16	9 16	3	14
10	10	10	8	8	7	8	8	8	8·1	5·0	15 18	16	6 43	2	15
10	10	9	9	9	9	6	5	7	8·3	6·0	12 42	14	7 52	3	16
10	10	9	8	7	6	7	8	8	7·4	5·4	16 26	15	7 54	2	17
15	14	14	13	10	7	6	5	5	8·0	6·8	15 57	20	7 57	2	18
16	16	14	12	10	8	7	5	5	8·9	7·7	15 52	22	7 12	2	19
13	12	9	8	8	6	6	5	4	7·5	6·3	14 32	20	6 45	3	20
15	16	14	12	10	5	4	5	3	7·8	6·8	16 37	23	0 30	3	21
13	13	12	10	3	3	3	6	2	6·5	5·4	12 54	19	7 55	1	22
17	15	10	7	7	3	4	6	7	9·1	7·7	15 4	22	0 2	2	23
14	13	12	11	8	6	3	3	6	7·4	6·5	16 33	18	7 10	2	24
11	10	11	10	7	7	7	7	7	7·2	6·0	17 20	16	6 25	2	25
11	12	12	8	8	8	8	9	8	7·9	6·7	13 45	18	4 20	2	26
13	12	11	11	11	8	7	7	7	8·3	7·2	14 52	17	7 26	2	27
16	15	13	12	6	7	6	7	9	8·7	7·6	15 55	21	7 30	1	28
11	10	9	9	9	6	7	7	7	7·6	6·3	15 45	15	7 3	2	29
11	10	10	9	10	9	9	9	9	8·3	6·9	15 38	15	8 45	3	30
10	10	9	10	10	9	10	8	10	9·4	7·8	13 55	15	1 20	4	31
12·7	12.3	10·7	9·7	8·8	7·7	6·8	6·6	6·6	8·1	6·3					Mean.

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11	11	9	9	9	7	9	7	6	9·3	7·7	14 27	15	22 3	3	1
11	10	9	9	10	9	9	9	12	8·7	5·8	13 50	17	7 0	0	2
9	9	9	10	10	9	7	7	11	8·9	6·5	0 20	18	9 45	3	3
10	9	10	9	7	6	6	9	7	9·0	7·7	2 20	16	1 20	4	4
12	12	11	11	10	9	8	7	9	8·9	7·4	17 20	17	6 22	2	5
11	11	11	9	9	9	8	7	5	7·4	5·7	15 58	15	6 47	1	6
12	8	9	8	7	7	6	6	4	7·0	5·1	15 20	17	10 47	0	7
9	8	5	7	11	14	10	7	9	6·7	5·8	16 15	22	7 7	1	8
12	11	10	9	6	7	11	12	14	9·1	7·6	22 13	21	9 26	2	9
22	23	23	21	20	19	18	17	15	15·9	14·5	12 35	31	1 30	3	10
23	22	21	18	19	19	18	19	19	19·4	17·5	13 47	33	11 11	10	11
15	16	16	14	11	9	8	10	11	15·1	13·4	16 16	35	5 12	4	12
6	5	8	9	7	9	7	8	11	10·3	7·8	11 5	23	16 45	2	13
14	13	12	12	12	9	8	12	9	10·5	6·4	19 27	32	6 20	3	14
10	15	12	11	12	10	11	11	14	11·8	9·2	6 10	29	17 32	4	15
7	10	11	13	7	16	15	16	15	11·8	11·0	19 40	24	13 40	2	16
20	19	14	9	11	18	18	15	13	14·2	12·4	13 15	32	18 15	4	17
16	15	14	16	15	16	17	16	17	14·4	12·3	16 16	22	0 23	5	18
11	12	14	14	13	13	13	14	17	12·7	11·0	0 1	21	15 30	5	19
26	25	25	25	21	24	25	20	23	18·8	17·7	17 4	34	5 34	8	20
22	18	16	15	16	14	16	21	14	17·7	16·6	22 10	39	16 25	9	21
9	12	15	16	16	17	13	12	14	14·8	12·2	22 15	34	23 12	5	22
20	17	18	14	12	15	10	10	14	15·5	10·8	14 47	38	21 25	4	23
20	16	11	16	15	19	20	20	20	15·5	10·2	13 14	36	8 7	5	24
17	19	18	16	18	19	17	16	17	14·9	12·2	0 8	27	8 6	3	25
18	18	18	23	20	18	20	17	12	14·5	11·2	19 31	29	9 3	2	26
14	14	17	21	20	18	16	16	16	12·9	7·4	17 8	44	8 26	3	27
17	19	22	24	15	16	19	20	18	16·9	9·7	17 23	51	13 30	6	28
21	12	13	15	16	20	20	26	22	17·4	10·0	22 36	45	14 10	6	29
18	16	21	22	21	18	18	22	21	20·1	11·8	17 47	47	0 34	8	30
14·8	14·2	14·1	14·2	13.5	13·8	13·4	13·6	13·6	13·0	10·1					Mean.

JULY. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)

(IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	20	16	14	14	12	17	10	8	8	8	13	14	14	14	14
2	14	18	20	20	21	20	20	19	18	16	17	18	15	19	19
3	23	24	23	24	24	23	25	24	22	20	23	23	19	18	18
4	22	23	22	25	25	26	26	25	24	24	24	23	24	21	21
5	14	15	15	16	18	17	18	18	17	21	17	18	16	17	18
6	16	16	17	18	18	19	18	17	18	17	17	17	23	22	13
7	16	18	18	17	17	19	18	16	17	18	18	20	19	16	16
8	18	18	18	16	16	16	17	16	15	17	16	16	17	17	16
9	14	17	9	14	14	15	16	15	16	16	16	16	14	15	16
10	18	16	17	19	17	16	15	16	17	15	15	15	15	16	14
11	16	17	16	16	17	16	14	14	14	14	15	1[illegible]	13	14	12
12	14	14	13	13	14	13	12	14	18	12	5	7	10	13	13
13	12	11	11	11	12	12	12	12	12	11	12	14	14	14	15
14	12	13	13	14	14	13	13	14	15	16	15	15	14	14	12
15	17	18	16	17	18	16	14	14	13	14	14	14	14	13	13
16	16	17	17	18	16	16	16	15	18	16	17	16	16	16	16
17	21	21	22	23	24	25	23	23	27	26	22	21	21	24	22
18	23	24	23	21	25	22	22	21	18	18	19	18	16	16	16
19	20	21	20	18	18	18	20	14	16	17	19	19	18	17	18
20	15	15	20	18	20	17	18	20	19	16	21	19	22	17	22
21	20	20	22	23	22	23	21	22	22	22	22	22	23	17	23
22	24	20	23	24	21	22	20	21	22	22	22	22	21	20	20
23	19	20	21	20	21	19	18	19	22	22	24	20	18	17	17
24	16	15	14	14	16	16	13	15	17	16	17	17	15	15	13
25	13	14	13	12	11	11	13	13	12	11	13	12	14	14	14
26	12	12	13	13	15	17	18	18	18	18	16	16	16	15	18
27	15	13	13	14	15	15	16	17	18	25	17	12	12	15	20
28	16	16	17	16	15	15	14	15	14	18	21	14	17	20	20
29	17	18	20	18	16	17	17	17	17	16	16	16	17	18	18
30	17	18	17	18	17	18	14	13	17	16	8	12	13	16	15
31	16	18	17	17	19	19	18	17	16	14	14	15	14	15	16
Mean . .	17·0	17·3	17·2	17·5	17·7	17·7	17·1	16·8	17·3	17·2	16·9	16·6	16·6	16·6	16·7

AUGUST.

1	12	11	12	13	10	10	8	9	9	13	13	9	11	11	8
2	6	10	11	7	5	5	5	5	5	8	7	11	11	13	16
3	16	16	16	16	17	16	17	16	18	17	16	16	15	14	16
4	15	15	14	14	15	17	16	15	15	17	18	18	20	20	19
5	17	15	16	18	21	21	17	18	22	24	26	26	26	24	21
6	22	24	25	24	25	24	24	23	21	22	20	18	18	18	17
7	18	18	18	18	17	18	17	16	16	17	18	17	19	20	20
8	18	17	17	19	19	22	22	22	20	23	23	21	20	25	25
9	20	19	19	20	25	24	23	19	20	23	23	24	22	20	20
10	16	16	16	15	16	16	16	15	16	16	16	16	16	16	15
11	16	16	14	16	14	19	15	16	20	17	19	20	18	18	20
12	16	16	16	16	16	16	16	17	15	16	16	17	15	17	20
13	15	14	14	15	17	17	13	14	16	16	8	15	16	18	13
14	21	10	13	13	13	12	12	11	14	13	13	11	8	12	16
15	13	12	12	12	18	15	13	9	9	17	21	15	11	10	15
16	11	11	18	17	16	19	12	13	13	11	12	12	16	14	15
17	14	16	16	15	16	16	18	15	16	17	13	18	15	15	10
18	14	12	12	13	14	14	14	16	15	13	14	15	14	11	11
19	10	10	10	11	12	12	9	11	11	13	13	12	11	10	10
20	11	9	8	9	11	11	12	9	9	11	17	8	9	9	10
21	11	12	12	12	11	11	12	12	13	12	12	12	13	13	12
22	11	12	12	12	10	9	11	8	11	11	13	13	14	14	15
23	14	15	14	14	3	12	12	13	12	12	13	11	10	10	10
24	9	9	10	9	9	9	10	11	10	9	7	8	[illegible]	13	12
25	9	9	8	8	8	7	7	6	6	6	7	7	8	8	8
26	11	10	9	9	9	9	9	9	5	9	8	9	10	10	11
27	8	8	8	8	8	8	7	5	7	7	8	8	8	6	8
28	12	10	13	13	9	9	9	11	14	16	15	15	11	9	13
29	9	12	11	12	10	9	10	9	10	9	8	8	8	8	10
30	5	4	5	5	11	12	12	8	9	7	7	7	7	6	7
31	5	5	5	4	4	7	9	8	7	8	14	14	7	6	7
Mean . .	13·1	12.7	13·0	13·1	13·5	13·7	13·1	12·5	13·0	13·9	14·1	13·9	13·5	13·5	13·9

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY. (IN MILES PER HOUR.)

Hours.									Mean.	Mean by R. Beckley's anemo-graph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
15	14	16	16	17	16	15	16	16	14·0	7·3	4 11	51	8 3	5	1
21	22	22	23	21	22	21	22	20	19·5	11·2	22 12	40	12 35	7	2
18	24	22	22	21	21	26	22	20	22·0	13·9	1 30	**54**	13 55	8	3
26	24	23	23	20	18	16	16	16	**22·4**	13·0	4 4	46	22 17	7	4
20	18	17	17	17	17	17	18	19	17·3	9·3	9 22	40	18 13	6	5
15	18	16	17	17	17	18	17	17	17·4	10·2	12 47	42	14 50	7	6
17	17	19	18	17	18	18	18	18	17·6	10·4	1 10	40	11 22	7	7
16	15	16	15	15	16	16	16	15	16·2	9·4	6 33	33	10 37	5	8
18	16	15	15	14	14	15	15	16	15·0	7·7	1 16	33	2 16	5	9
14	13	15	16	16	16	16	16	16	15·8	8·2	0 37	28	6 20	7	10
13	14	15	14	13	12	13	13	14	14·3	7·4	4 50	27	14 47	4	11
13	12	10	13	11	11	10	11	11	**12·0**	6·0	8 29	30	10 27	3	12
16	13	12	11	12	12	13	12	12	12·4	**5·5**	14 47	24	9 30	5	13
13	15	17	18	13	15	16	18	18	14·6	7·3	21 25	34	15 7	6	14
14	16	12	14	16	15	15	15	15	14·9	7·4	16 17	36	7 40	6	15
17	17	18	18	18	19	20	19	21	17·2	9·0	8 5	44	14 10	7	16
24	20	23	21	23	21	20	19	21	22·4	13·0	4 35	47	14 14	9	17
18	17	17	17	17	15	17	16	17	18·9	10·5	4 28	40	12 10	8	18
20	21	20	19	18	16	17	18	17	18·3	10·9	15 59	40	7 40	8	19
21	22	20	24	22	22	22	22	23	19·9	12·8	12 14	36	0 27	8	20
23	24	24	23	23	22	22	22	21	22·0	**14·3**	20 37	40	23 12	10	21
23	20	19	20	18	16	18	19	18	20·6	11·0	0 54	40	20 32	8	22
17	17	16	16	17	16	16	16	16	18·5	9·6	16 20	40	14 57	8	23
12	15	18	11	12	13	13	14	13	14·6	8·3	6 10	29	19 30	7	24
15	14	17	16	15	16	15	14	13	13·5	9·0	17 42	34	5 55	8	25
18	17	16	15	14	14	15	15	15	15·6	11·0	5 7	29	13 20	9	26
18	19	19	16	18	16	16	15	16	16·3	10·0	17 56	36	10 55	7	27
17	19	14	15	15	16	17	18	18	16·5	9·5	16 7	40	16 35	7	28
18	18	18	15	17	16	16	14	17	17·0	11·0	3 45	33	21 53	9	29
14	14	14	15	17	16	15	15	15	15·2	8·5	8 43	35	10 17	5	30
15	14	13	12	12	10	10	9	8	14·5	8.6	2 12	30	23 50	7	31
17·4	17·4	17·2	16·9	16·6	**16·3**	16·6	16·5	16·5	17·0	9·7					Mean.

AUGUST.

9	8	5	4	6	7	9	7	12	9·4	5·9	23 45	22	22 30	4	1
17	18	16	16	18	16	14	15	16	11·3	6·8	19 25	25	9 12	3	2
16	17	17	15	15	14	14	14	14	15·7	10·8	14 17	28	13 20	6	3
18	21	22	22	20	18	15	16	16	17·3	12·5	17 34	31	2 12	9	4
21	19	18	21	20	20	17	22	23	**20·5**	**14·3**	13 30	**44**	21 25	8	5
18	18	18	18	18	17	19	17	18	20·3	13·0	4 48	37	11 1	8	6
21	18	19	18	18	18	17	19	19	18·1	10·5	15 52	28	2 12	9	7
23	24	23	19	19	15	19	19	19	20·5	12·1	14 25	40	2 7	6	8
20	18	20	20	20	16	16	16	16	20·1	12·6	4 30	35	23 1	8	9
16	17	14	15	14	15	15	16	16	15·6	7·7	8 1	28	1 38	6	10
17	17	17	18	16	17	16	15	16	17·0	9·2	5 6	38	4 53	6	11
21	16	15	16	15	13	13	13	14	15·9	9·8	11 26	37	22 14	7	12
18	16	16	13	12	12	12	14	13	14·5	8·6	15 40	32	15 20	5	13
18	13	18	7	9	12	11	9	11	12·5	7·5	0 50	31	12 33	5	14
14	16	13	14	14	18	12	11	13	13·6	8·7	20 20	31	8 45	5	15
18	18	16	16	15	17	16	15	13	14·7	9·9	5 24	30	1 31	6	16
14	12	10	13	14	12	12	14	13	14·3	9·2	4 18	33	14 30	5	17
10	10	10	9	8	9	9	10	10	12·0	6·3	12 6	22	16 28	6	18
12	12	14	9	8	10	10	8	9	10·7	5·5	16 58	24	19 32	5	19
6	5	6	7	7	9	8	8	9	9·1	4·0	10 40	25	16 30	4	20
14	14	14	14	12	11	8	12	11	12·1	6·3	20 33	22	21 33	5	21
15	14	14	14	14	14	13	14	15	12·6	7·7	9 50	22	9 35	5	22
11	10	10	12	12	12	12	11	9	11·8	6·3	1 40	22	11 50	6	23
12	12	12	9	10	9	9	9	8	9·8	4·9	7 4	20	9 50	5	24
8	8	7	7	7	7	7	9	9	7·5	**3·3**	0 33	13	8 12	3	25
10	9	9	7	7	7	7	8	8	8·7	4·3	7 42	19	9 0	4	26
9	8	8	7	7	7	7	6	10	7·5	3·7	21 37	21	22 13	1	27
13	12	12	8	9	9	9	12	12	11·4	6·8	3 44	24	6 18	4	28
12	11	7	6	6	5	4	4	4	8·4	4·5	3 2	19	22 33	3	29
8	8	7	7	6	6	5	5	4	**7·0**	4·2	5 8	16	1 14	4	30
8	9	9	9	9	8	7	6	5	7·5	4·1	10 28	17	0 12	4	31
14·4	13·8	13·4	12·6	12·4	12·3	**11·7**	12·1	12·4	13·2	7·8					Mean.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	5	5	4	5	6	5	6	7	7	6	6	5	7	11	12
2	5	5	5	5	5	6	6	5	4	5	9	10	13	14	14
3	10	8	6	5	6	6	7	6	5	8	10	11	12	13	14
4	7	8	9	9	10	7	3	7	6	8	11	11	14	14	14
5	6	7	8	7	7	8	7	6	6	6	7	7	13	13	14
6	7	10	13	12	13	13	13	8	11	12	15	13	12	17	20
7	5	5	5	5	9	10	10	11	10	7	7	6	7	7	8
8	8	8	7	7	9	9	8	7	8	9	9	8	8	16	19
9	11	13	17	17	22	14	16	16	15	16	12	9	9	13	12
10	10	12	13	13	7	9	16	16	14	26	26	13	13	12	17
11	12	13	17	18	20	16	17	17	18	16	16	19	15	14	17
12	11	10	12	12	13	11	10	13	12	10	12	12	13	14	13
13	15	12	12	12	14	14	14	11	11	12	12	16	15	21	16
14	12	12	13	12	12	16	13	9	6	7	7	8	12	14	20
15	17	17	16	19	18	17	17	18	16	16	17	18	19	19	19
16	13	14	12	11	12	12	12	11	8	9	12	12	13	13	13
17	12	13	12	12	12	11	10	10	8	8	9	9	10	9	9
18	10	10	10	10	11	11	9	7	9	11	12	11	14	13	13
19	9	9	8	8	8	6	9	11	11	10	6	9	10	12	12
20	7	7	8	9	8	8	8	9	9	12	9	7	7	10	10
21	6	8	9	12	12	12	11	12	8	10	7	8	9	11	16
22	10	10	10	9	8	9	11	11	10	8	5	7	7	8	9
23	10	11	11	13	14	14	12	9	9	8	7	8	8	8	10
24	6	7	6	6	11	7	8	10	10	7	6	6	7	8	1
25	5	5	6	7	7	5	5	5	7	5	5	8	12	13	14
26	9	9	9	8	9	10	10	11	11	7	10	13	14	15	15
27	10	6	6	5	5	5	5	6	6	9	11	10	11	12	14
28	13	11	9	6	4	4	5	6	8	7	6	5	8	9	11
29	8	8	7	4	2	2	1	1	1	2	5	6	5	6	9
30	8	8	6	4	3	3	3	3	3	5	5	6	6	7	10
Mean . .	9·2	9·4	9·5	9·4	9·9	9·3	9·4	9·3	8·9	9·4	9·7	9·7	10·8	12·2	13·5

OCTOBER.

1	8	8	8	9	7	6	6	5	5	6	7	10	10	12	12
2	8	7	6	5	3	3	3	3	7	8	9	10	10	12	12
3	6	5	4	6	7	5	5	5	5	6	6	7	11	10	13
4	5	5	5	7	6	5	5	4	6	9	9	10	11	13	13
5	5	6	5	5	5	4	4	5	6	5	4	5	8	11	12
6	3	5	6	4	9	8	4	9	8	9	7	8	11	12	14
7	6	6	6	5	6	6	7	8	7	7	6	4	8	9	10
8	3	5	7	6	3	6	6	9	6	5	5	3	4	5	9
9	3	5	9	12	10	9	3	1	4	4	4	4	5	4	7
10	3	5	5	6	6	7	8	7	7	6	4	4	7	8	7
11	6	5	4	7	10	8	9	8	7	6	5	5	4	7	10
12	8	8	7	8	8	6	7	6	8	8	7	5	8	9	10
13	9	6	6	7	6	5	6	6	7	5	5	5	5	9	9
14	5	8	9	8	11	11	11	10	10	9	6	6	4	7	8
15	6	6	6	7	8	11	11	11	11	9	6	4	5	5	6
16	7	7	7	6	7	8	9	7	8	8	8	8	5	9	10
17	5	5	6	6	8	8	9	9	6	4	4	4	4	6	6
18	5	8	7	7	5	6	7	5	5	6	4	6	7	8	11
19	3	2	6	3	6	7	3	5	7	8	6	5	6	7	9
20	3	5	8	9	9	5	8	9	9	11	7	4	6	8	9
21	5	5	6	4	5	8	8	8	7	7	5	5	8	8	9
22	6	4	5	5	7	7	7	5	4	6	5	3	8	10	13
23	9	10	7	7	7	7	7	6	8	7	6	10	13	13	14
24	8	11	10	11	6	6	7	6	8	8	6	5	5	9	11
25	9	8	7	8	6	6	6	5	7	6	4	5	5	5	9
26	5	5	8	9	10	7	9	9	8	7	7	8	8	10	12
27	9	11	23	16	10	10	9	9	11	9	12	12	7	1	5
28	11	15	14	10	14	15	15	12	13	18	20	20	18	17	12
29	17	17	16	16	28	29	32	37	37	42	41	44	39	37	33
30	19	19	17	18	19	20	17	16	17	15	13	11	12	10	8
31	6	5	6	5	5	7	7	10	7	6	8	7	9	12	15
Mean . .	6·8	7·3	7·9	7·8	8·3	8·3	8·2	8·2	8·6	8·7	7·9	8·0	8·7	9·8	10·9

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN MILES PER HOUR.)

Hours.									Mean.	Mean by R. Beckley's Anemo-graph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
13	12	12	11	9	10	10	8	5	7·8	4·7	15 6	19	2 30	4	1
13	14	9	9	11	12	9	8	8	8·5	5·4	13 2	20	9 8	2	2
13	11	14	12	12	11	9	7	8	9·3	6·1	17 55	19	7 43	3	3
14	14	14	13	12	10	7	7	6	9·8	6.3	17 35	19	6 15	2	4
14	14	14	12	11	11	9	7	7	9·2	6·0	16 10	20	7 52	4	5
22	24	13	9	8	6	5	4	5	11·9	7·6	16 35	34	22 30	3	6
8	8	8	6	14	17	12	11	8	8·5	5·3	20 15	24	2 30	4	7
14	9	8	3	3	3	6	11	9	8·6	5·4	13 42	35	19 20	3	8
13	13	13	10	9	10	10	11	10	13.0	8·4	4 25	30	11 50	5	9
13	8	6	8	10	8	6	5	11	12·2	7·7	3 5	36	21 45	4	10
21	21	14	11	10	12	12	11	9	15·3	9·9	16 0	29	1 5	7	11
13	13	13	11	10	11	14	11	12	11·9	5·5	21 25	22	9 40	8	12
18	14	14	14	12	9	11	13	14	13·6	7·8	15 28	28	10 42	7	13
25	11	9	11	11	12	15	14	16	12·4	6.6	15 8	41	9 15	6	14
17	16	14	13	12	12	11	16	10	16·0	9.7	22 5	29	23 30	9	15
13	13	13	12	12	11	13	13	14	12·1	5·7	1 15	19	8 18	6	16
9	10	10	9	9	9	11	10	10	10·0	4·7	4 28	18	9 15	6	17
13	14	13	13	11	10	8	8	8	10·8	5·1	12 15	20	7 25	6	18
12	11	9	7	7	7	7	6	6	8·7	3·7	3 30	18	3 16	6	19
12	12	11	11	10	9	9	9	9	9·2	4·4	23 32	19	7 0	6	20
16	15	15	14	14	13	13	12	11	11·4	6·2	14 1	23	10 52	6	21
8	9	7	7	8	7	7	7	7	8·3	3·2	5 30	17	10 5	4	22
11	10	10	9	9	6	6	6	7	9·4	4·6	4 30	16	10 55	5	23
12	12	11	11	9	9	8	7	7	8·4	3·7	15 32	17	11 0	4	24
16	14	12	12	12	12	10	10	10	9·0	4·4	15 45	20	7 58	3	25
16	17	17	14	12	12	11	11	12	11·7	7·5	16 45	25	9 20	3	26
14	15	14	12	12	13	13	13	13	10·0	7·0	16 15	21	8 10	3	27
11	11	8	10	8	7	8	9	8	8·0	5·7	15 45	16	5 32	4	28
10	9	9	7	7	7	6	6	7	5·6	3·4	14 48	14	7 15	0	29
10	10	8	8	10	10	9	9	8	6·7	4·5	20 3	13	10 20	1	30
13·8	12·8	11·4	10·3	10·1	9·9	9·5	9·3	9·2	10·2	5·9					Mean.

OCTOBER.

13	12	11	11	10	10	7	7	9	8·7	6·0	16 28	18	8 30	2	1
12	10	10	10	10	9	9	7	7	7·9	5·0	13 45	18	7 58	2	2
14	13	12	11	11	9	9	7	7	8·1	5·3	15 35	19	2 32	2	3
11	11	9	9	8	7	6	4	4	7·6	5·3	14 25	20	8 15	1	4
12	12	11	9	8	7	6	5	5	6·9	4·6	15 44	17	9 10	2	5
15	14	9	5	18	9	16	7	8	9·1	6·3	19 18	50	6 43	0	6
10	13	10	9	6	6	4	2	2	6·8	4·7	16 45	20	23 20	1	7
10	10	10	12	10	7	7	8	6	6·7	4·5	18 45	15	8 55	2	8
9	9	6	14	12	8	11	11	9	7·2	5·0	7 5	20	6 45	0	9
6	7	7	10	18	6	7	7	9	7·0	4·6	18 48	28	0 40	2	10
10	10	20	12	6	11	5	7	7	7·9	5·3	17 32	47	19 55	2	11
10	9	8	5	3	3	3	7	8	7·0	4·7	15 45	14	11 20	2	12
12	10	11	12	9	8	4	5	5	7·2	4·9	15 40	17	10 6	1	13
9	9	10	8	7	6	5	5	5	7·8	5·0	15 55	14	11 45	3	14
8	9	7	7	6	5	4	3	6	7·0	4·4	5 20	14	11 10	3	15
11	11	9	11	9	7	7	5	5	7·9	5·2	16 35	15	7 10	2	16
7	8	4	5	3	1	1	0	4	5·1	3·3	16 45	11	22 5	0	17
11	10	9	9	8	5	4	1	1	6·5	4·3	15 48	15	22 5	0	18
10	10	7	4	5	5	3	1	1	5·4	3·7	16 15	15	0 20	1	19
9	9	7	5	4	4	4	5	7	6·8	4·6	6 45	13	22 12	1	20
10	8	8	7	8	6	4	6	7	6·7	4·4	15 45	13	22 10	1	21
14	13	14	15	11	8	5	5	7	7·8	5·3	15 40	20	7 28	2	22
15	15	13	12	11	10	9	9	6	9·6	6·4	15 35	20	11 5	2	23
14	16	15	13	11	8	7	6	8	9·0	5·9	16 20	22	12 20	2	24
12	12	13	15	15	11	6	6	6	8·0	5·3	18 45	21	10 10	2	25
14	14	16	16	16	16	12	9	13	10·3	6·9	17 10	22	0 45	1	26
9	11	11	11	11	13	10	6	8	10·2	7·1	2 10	30	13 30	3	27
15	14	20	16	12	14	12	14	16	14·9	11·0	17 3	60	18 38	4	28
33	28	28	23	20	25	20	20	16	28·3	24·2	11 45	55	3 20	9	29
9	7	8	11	11	8	8	8	8	12·9	9·7	1 15	23	14 3	4	30
15	16	15	13	12	11	11	13	13	9·7	6·4	16 20	24	1 15	4	31
11·9	11·6	11·2	10·6	10·0	8·5	7·3	6·8	7·2	8·8	6·1					Mean.

WIND VELOCITY, 1930.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	12	8	5	6	7	6	8	6	5	6	6	9	9	10	11
2	3	2	3	7	6	6	6	5	6	6	7	6	8	8	10
3	5	6	6	4	4	3	3	1	1	0	6	9	10	10	11
4	4	4	6	4	5	7	7	7	7	8	7	9	11	10	9
5	10	9	9	9	9	9	9	10	6	7	7	5	8	9	10
6	7	8	10	11	13	14	13	14	14	11	11	9	6	7	7
7	5	5	6	7	9	9	12	17	19	20	17	13	14	11	9
8	9	10	10	9	9	11	13	13	13	10	9	6	7	6	8
9	5	5	5	6	7	9	10	11	12	10	8	7	7	8	9
10	3	4	7	9	10	12	11	12	12	11	8	5	5	6	8
11	3	4	4	7	9	9	10	11	12	12	11	9	6	5	6
12	6	8	6	8	9	8	9	9	10	9	9	6	5	6	7
13	6	5	9	9	8	9	11	15	14	13	10	7	7	5	6
14	7	5	7	8	8	9	13	13	13	12	9	9	8	7	6
15	5	6	6	6	7	9	13	14	14	13	12	8	8	6	7
16	6	7	7	10	13	14	11	13	12	10	11	9	7	5	7
17	6	6	7	7	6	10	10	11	10	8	8	7	7	9	11
18	6	6	6	4	5	5	7	6	7	6	6	9	10	12	14
19	5	4	5	4	4	5	5	5	6	7	5	4	7	9	10
20	5	5	4	3	5	4	5	6	7	5	4	5	9	11	11
21	7	8	6	8	6	7	4	2	4	4	4	7	9	10	10
22	1	3	3	3	3	5	4	5	6	7	5	5	10	11	12
23	5	4	4	4	4	5	4	1	5	8	10	13	14	14	14
24	7	8	3	4	7	6	4	5	9	4	3	6	8	8	9
25	9	8	8	10	11	9	7	9	8	7	6	5	4	7	9
26	6	7	7	12	13	14	14	12	12	11	6	5	5	11	9
27	8	8	7	10	12	12	13	13	12	11	9	8	6	7	9
28	5	7	9	11	11	12	10	12	12	10	6	5	7	9	11
29	8	10	10	11	11	11	12	13	14	12	8	8	10	7	9
30	5	9	11	11	12	13	13	13	13	13	11	11	10	8	9
Mean . .	6·0	6·3	6·5	7·4	8·1	8·7	9·0	9·5	9·8	9·0	8·0	7·5	8·1	8·4	9·3

DECEMBER.

1	5	4	6	7	7	7	7	8	9	10	8	5	6	9	10
2	5	5	6	7	9	11	10	9	10	6	3	3	8	11	11
3	6	5	5	8	8	7	8	8	8	8	5	6	5	8	10
4	2	2	5	6	6	6	7	12	11	8	4	6	6	8	10
5	6	6	4	5	7	5	4	1	5	4	4	6	7	8	8
6	4	4	3	2	4	4	6	5	5	4	7	10	12	12	12
7	6	9	10	10	10	10	11	9	7	5	4	9	9	14	18
8	8	9	8	7	7	8	6	8	6	6	6	8	12	12	14
9	7	7	7	5	8	7	7	7	6	7	6	5	11	13	14
10	8	8	7	7	8	8	7	6	8	7	7	5	6	12	16
11	5	5	4	6	6	9	6	6	6	5	5	5	6	8	9
12	5	3	3	5	7	8	8	9	8	8	5	4	5	6	8
13	6	7	7	7	9	8	6	7	8	6	5	6	7	8	11
14	2	3	5	5	4	6	6	5	6	7	7	7	8	11	12
15	4	3	3	4	3	7	7	6	8	7	6	4	8	11	13
16	3	5	4	3	6	7	8	6	7	5	9	12	12	12	11
17	6	6	5	6	5	5	7	6	4	6	11	12	13	15	15
18	6	6	5	5	8	8	8	9	8	6	5	5	9	9	10
19	5	6	6	7	9	10	8	7	8	7	8	7	7	12	12
20	6	6	6	7	8	10	8	8	8	10	8	9	10	9	6
21	9	11	13	13	14	15	18	16	14	13	10	8	9	9	10
22	10	8	7	9	8	6	8	7	8	7	10	7	8	9	13
23	10	8	10	11	13	15	14	15	13	12	7	10	8	7	7
24	5	5	8	5	7	7	8	9	11	12	10	8	9	8	6
25	4	6	6	7	10	11	11	12	10	8	6	5	4	6	7
26	6	7	7	6	8	8	9	8	8	6	4	8	8	8	10
27	5	5	5	6	6	9	7	8	6	7	6	5	10	15	17
28	7	8	5	5	5	5	4	4	9	13	12	5	5	8	12
29	5	8	7	8	7	7	8	6	6	6	11	13	15	13	15
30	7	9	9	12	8	8	8	8	7	9	8	10	11	14	16
31	8	7	7	7	7	7	7	10	15	13	10	8	7	9	13
Mean . .	5·8	6·2	6·2½	6·7	7·5	8·0	8·0	7·9	8·2	7·7	7·0	7·1	8·4	10·1	11·5

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN MILES PER HOUR.)

Hours.									Mean.	Mean by R. Beckley's anemo-graph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
11	10	8	7	5	4	4	3	3	7·0	4·3	15 20	15	8 3	4	1
11	9	9	8	8	6	5	6	6	6·5	**3·9**	15 20	13	2 25	2	2
11	11	10	10	10	7	6	8	6	6·6	4·1	15 25	16	8 20	**0**	3
10	10	10	9	6	5	5	5	9	7·3	4·3	16 45	17	7 15	2	4
11	13	14	12	11	7	5	5	6	8·7	6·1	17 45	18	22 25	3	5
9	9	10	13	12	11	7	4	6	9·8	6·8	18 30	17	22 35	3	6
7	8	6	5	5	6	5	7	5	9·5	6·6	9 28	**24**	0 50	4	7
11	12	11	12	13	13	10	6	4	9·8	6·5	19 28	18	11 45	4	8
11	12	13	13	12	10	9	7	6	8·8	5·9	18 15	17	0 20	3	9
11	11	13	13	12	9	6	7	4	8·7	5·8	17 50	16	0 45	2	10
9	9	10	10	9	9	7	7	7	8·1	5·3	8 45	14	0 35	3	11
10	10	10	10	9	8	6	7	7	8·0	5·3	17 50	14	2 40	4	12
10	10	11	9	9	9	7	6	5	8·7	5·5	8 35	17	23 10	4	13
6	8	10	10	10	7	7	6	6	8·5	5·7	7 15	16	2 40	4	14
8	11	10	11	12	9	9	6	5	9·0	6·0	19 15	15	2 50	5	15
9	10	9	12	12	11	10	6	6	9·5	5·8	4 45	16	0 10	3	16
11	10	9	13	13	13	12	7	5	9·0	5·9	18 48	18	2 0	4	17
13	14	13	13	12	11	8	6	6	8·5	5·8	16 15	20	10 40	3	18
10	10	11	11	11	9	7	6	5	6·9	4·5	19 18	15	2 20	3	19
10	10	9	9	8	7	7	4	7	6·7	4·3	13 50	14	3 0	3	20
10	11	10	10	9	9	9	3	2	7·0	4·6	16 32	14	7 0	1	21
12	12	12	12	11	10	6	4	4	6·9	4·7	15 45	18	0 20	2	22
14	16	15	14	14	13	9	8	8	9·6	6·2	16 45	20	7 40	**1**	23
9	9	8	6	6	5	5	5	6	**6·3**	4·2	15 5	13	11 15	2	24
13	11	11	11	11	10	9	6	5	8·5	6·0	15 52	16	6 50	3	25
9	13	13	14	16	10	6	5	6	9·8	6·9	18 50	22	11 3	4	26
11	14	15	17	14	12	12	8	7	**10·6**	7·3	18 50	21	11 50	4	27
12	12	14	14	12	10	9	7	8	9·8	6·9	17 30	19	11 25	4	28
13	12	12	14	14	13	10	6	6	10·6	**7·5**	19 50	20	23 52	4	29
10	10	12	13	12	11	9	9	7	10·6	7·1	17 55	16	0 40	5	30
10·4	10·9	10·9	**11·2**	10·6	9·1	7·5	6·9	**5·8**	8·5	5·6					Mean.

DECEMBER.

13	13	12	13	12	10	7	4	4	8·2	5·6	16 30	17	22 30	4	1
14	17	15	13	12	7	6	5	5	8·7	5·9	16 35	21	10 55	3	2
12	11	12	10	10	7	5	4	3	7·5	4·6	19 12	15	23 30	2	3
11	10	9	8	4	4	6	5	5	6·7	4·3	14 48	14	0 45	2	4
9	12	8	8	6	6	8	6	4	**6·1**	**3.9**	16 30	17	7 15	0	5
16	18	17	15	15	13	10	9	9	9·0	5·9	15 50	22	10 28	1	6
19	18	18	18	17	16	9	8	8	11·3	7·6	18 25	26	10 47	2	7
16	16	14	14	13	13	10	10	9	10·0	6·7	16 30	20	9 35	2	8
16	17	15	16	14	12	9	9	9	9·7	6·2	16 48	22	11 10	2	9
15	14	12	11	12	13	12	9	6	9·3	6·1	16 8	19	11 45	3	10
10	10	13	14	13	12	6	6	7	7·6	5·0	18 30	18	9 5	1	11
8	8	8	7	5	4	4	5	6	6·1	3·9	7 35	12	1 25	3	12
12	12	13	11	11	7	6	5	5	7·8	5·1	16 12	17	9 10	3	13
17	18	14	13	13	10	9	8	4	8·3	5·7	16 25	22	0 15	2	14
14	15	16	14	13	12	8	4	4	8·0	5·3	17 2	20	3 40	2	15
11	12	14	14	13	13	11	7	7	8·8	6·3	18 15	17	7 20	2	16
15	14	15	15	15	14	12	8	6	9·8	6·7	15 8	21	8 7	2	17
11	11	10	11	11	11	9	8	6	8·1	5·5	19 5	15	10 35	4	18
13	12	13	13	11	7	6	9	7	8·7	5·6	13 40	17	7 15	3	19
6	12	14	15	14	12	12	10	7	9·2	5·7	16 35	21	7 15	3	20
13	15	14	14	15	13	9	8	9	12·2	**8·5**	6 58	22	11 35	5	21
16	16	16	16	15	15	11	6	6	10·6	6·6	16 20	22	2 40	3	22
9	10	12	13	12	11	7	6	5	10·3	7·1	5 45	19	23 45	4	23
9	10	10	12	13	12	11	8	6	8·7	5·8	18 57	18	0 0	4	24
8	8	9	8	9	9	9	9	8	7·9	5·2	5 40	16	0 30	3	25
10	10	10	13	14	14	11	7	5	8·5	5·7	18 56	19	10 45	3	26
16	16	16	15	14	14	9	10	9	9·8	6·8	16 54	24	9 15	3	27
12	11	11	9	8	7	10	11	7	8·0	5·3	9 53	20	12 40	3	28
15	10	12	12	12	11	9	7	6	9·5	6·5	15 14	23	9 45	2	29
21	23	22	22	20	14	11	9	9	12·3	8·4	16 18	30	8 50	4	30
16	16	16	16	16	13	12	10	10	10·8	7·4	19 25	22	11 30	4	31
13·0	13·4	13·2	13·0	12·3	10·8	8·8	7·4	6·4	8·9	6·0					Mean.

JANUARY. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)

Date.	Hours.											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	NNE	NNE	NNE	NE	NE	NNE	ENE	E	E	NNE	NNW	NNW
2	N	N	N	NNE	NE	ENE	NE	NE	ENE	ENE	NNW	NNW
3	N	NNE	NE	NNE	E	NE	ENE	ENE	ENE	ENE	E	WNW
4	ESE	ENE	ENE	NE	E	ENE	NE	ENE	ENE	E	E	E
5	ENE	NNE	NNE	N	N	NNE	NNE	NNE	NNE	ENE	ENE	NNW
6	N	NNE	NNE	N	NNE	NNE	NNE	NE	ENE	ENE	E	NNW
7	NE	NE	ENE	NNE	NNE	NE	NE	ENE	ENE	ENE	ENE	NNW
8	ENE	NE	ENE	E	NE	ENE	ENE	E	ESE	ESE	ESE	E
9	NE	ENE	ENE	NNE	NE	ENE	E	ESE	ESE	ESE	ENE	ESE
10	NE	ESE	ENE	ENE	ENE	E	E	ESE	E	ESE	SE	SSW
11	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	ENE	ENE	E	SE
12	ENE	ENE	ENE	ENE	ENE	ENE	E	ENE	ENE	ENE	ENE	WNW
13	NE	ENE	ESE	ESE	SE	NW	NW	SE	SE	SE	SE	SW
14	N	N	N	NNE	NNE	NNE	NNE	N	N	N	N	N
15	NNE	N	N	N	NE	NE	NE	ENE	NE	NNE	NNW	NNW
16	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NNE	NNE	N	N
17	NNE	NNE	NNE	NNE	NE	ENE	NE	NNE	NE	NNE	ENE	NNW
18	NNE	N	N	NNE	NNE	ENE	NE	ENE	E	ENE	E	NNW
19	NNE	N	N	N	N	NNE	NE	NE	ENE	ENE	ENE	NNW
20	NE	NNE	NNE	NE	NE	NE	NNE	NE	NNE	ENE	NNE	N
21	NNE	ENE	NE	NE	NNE	NNE	NE	ENE	ENE	NE	ENE	NNW
22	NNE	NNE	ENE	E	E	ENE	ESE	NE	NNE	ENE	ENE	NE
23	ESE	SE	SE	ESE	ENE	E	ENE	E	ENE	ENE	ENE	ENE
24	ESE	ESE	ESE	NNW	NE	NNE	NE	E	E	ENE	ENE	ENE
25	ESE	ESE	ESE	NE	N	NNE	ENE	NE	ENE	ENE	ENE	NNW
26	ENE	ENE	N	N	N	N	N	N	NNE	E	NNE	E
27	NNW	NNW	N	N	N	NNE	NE	ENE	NNE	NNW	NNW	NNW
28	NNE	N	NNE	N	N	NNE	ENE	ESE	ENE	ENE	NNW	NNW
29	N	N	N	N	N	NNE	N	NNE	N	ENE	NNW	NNW
30	N	N	NNE	NNE	NNE	NE	NE	ENE	E	NNW	NNW	NNW
31	NNW	NNW	NNW	NE	ENE	ENE	NE	NNE	NE	N	N	N
Mean.	NNE	NNE	NNE	NNE	NE	NE	NE	ENE	ENE	ENE	NE	N

FEBRUARY.

1	NE	NNE	NNE	NE	NE	E	NE	NE	ENE	ENE	NE	N
2	NNE	NNE	NNE	NNE	NE	NNE	NNE	ENE	ENE	ENE	E	E
3	NE	NE	NE	NE	E	ENE	E	ESE	ESE	E	E	E
4	E	ENE	ENE	ESE	E	E	E	E	E	E	E	E
5	N	ENE	ENE	E	E	E	ENE	ENE	ENE	ENE	E	E
6	NNE	NNE	NNE	ENE	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE
7	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ESE
8	SSE	SE	SSE	ESE	ESE	ESE	ESE	E	ESE	ESE	SW	SW
9	W	W	W	W	W	WNW	NW	NW	NNW	NNW	NNW	NNW
10	ESE	ESE	ENE	ENE	ENE	NE	NE	NNE	NNE	NNE	ENE	NNW
11	NE	NE	NNE	NNE	NNE	NE	NE	ENE	ENE	ENE	ENE	ENE
12	NNE	NE	NNE	NNE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE
13	E	ENE	ENE	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE
14	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE
15	NE	E	ENE	E	E	ENE	E	E	E	E	E	NNE
16	SE	ESE	ENE	E	ESE	E	ENE	E	E	E	E	E
17	ENE	ESE	NNE	NNE	NE	ENE	ENE	ENE	ENE	ENE	NE	WNW
18	ESE	ESE	ENE	ENE	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE
19	SE	ESE	ESE	NNW	NE	NE	ENE	ENE	ENE	ENE	ENE	NNW
20	NNW	NNW	N	N	NNE	ESE	ESE	ENE	NNW	NNW	NNW	NNW
21	ESE	ENE	N	NNE	N	N	ENE	ENE	E	ESE	NW	NW
22	NNW	N	N	N	N	N	NNE	ESE	ENE	E	E	E
23	N	N	N	N	N	NNE	ENE	NNW	NNW	E	E	WNW
24	N	N	N	NNE	NNE	NNE	NNE	NNE	N	ENE	ENE	NW
25	SE	ESE	N	N	N	NNE	ENE	ENE	E	ESE	ESE	WNW
26	S	NE	NNE	NNE	NNE	NE	NE	ENE	ENE	ENE	ENE	WNW
27	NNW	N	N	N	NNE	NNE	ENE	ENE	ENE	ENE	NW	NW
28	N	N	NNE	NNE	NNE	NNE	N	NNE	ENE	ENE	NNW	NNW
Mean.	NE	NE	NNE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	NNE

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JANUARY.

Hours.												Mean.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
NNW	N	N	N	N	N	N	N	N	N	N	N	N	1
NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	N	NNE	N	2
WNW	WNW	WNW	NW	NW	NW	NNW	NNW	NE	ENE	NNE	SE	N	3
NNW	NW	NNW	NNW	NNW	N	N	N	N	NNE	NE	ENE	NNE	4
N	N	N	N	N	N	N	N	N	N	N	N	N	5
NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	N	NE	N	6
NNW	NW	NW	NNW	NNW	N	N	N	N	NNE	NNE	ENE	NNE	7
W	WNW	WNW	WNW	NW	NW	N	N	NNE	NE	NE	ENE	NE	8
WNW	WNW	WNW	WNW	WNW	NW	NNW	N	N	N	N	NNE	NNE	9
W	WNW	WNW	WNW	WNW	NW	NW	NNW	NNE	NNE	NNE	NE	NNE	10
W	WNW	WNW	WNW	NW	NW	NNW	NNW	N	ESE	ESE	ENE	NE	11
WNW	WNW	NW	NNW	NNW	NNW	N	N	N	NNW	NNW	N	NNE	12
WNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NE	NNE	N	N	13
N	N	N	N	N	N	N	N	N	N	N	N	N	14
NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	N	NNE	N	15
NNW	NNW	NNW	NNW	N	N	N	N	N	N	N	N	N	16
NNW	NNW	NNW	N	N	N	N	N	N	N	N	N	N	17
NNW	NNW	NNW	NNW	N	N	N	N	N	N	N	NNE	N	18
NNW	NNW	NNW	NNW	N	N	N	N	N	NNE	NNE	NNE	N	19
N	N	N	NNW	NNW	N	N	N	N	NNE	NNE	NNE	N	20
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NE	ENE	N	21
NW	NW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	NNE	22
SE	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	N	SE	NNE	23
NW	WNW	NW	NNW	NNW	NNW	N	N	NE	NE	ESE	E	NNE	24
NNW	NW	NNW	NNW	NNW	NNW	N	N	N	N	N	NNE	N	25
NNW	NNW	NNW	NNW	N	N	N	N	N	N	NNE	ENE	N	26
NNW	NNW	NNW	NNW	NNW	NNW	N	N	ENE	NNW	ENE	N	N	27
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	28
NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	N	N	N	29
NNW	NNW	N	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	30
N	N	NNW	NNW	NNW	NNW	N	N	N	NE	NNE	NE	N	31
NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	NNE	N	Mean.

FEBRUARY.

N	N	NNW	NNW	NNW	NNW	N	N	N	N	NNE	NNE	NNE	1
NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NE	N	2
SE	S	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NE	NE	3
NW	NNW	NW	NNW	NNW	N	N	N	N	N	NNW	NNW	NNE	4
NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	NNE	NNE	5
ENE	ENE	ENE	NNW	NNW	N	N	N	N	N	N	NE	NE	6
ESE	W	WNW	NW	NNW	N	N	N	N	N	ESE	SE	NE	7
SW	SW	SW	SW	SW	SW	SSW	SSW	SW	S	SSW	SW	SSW	8
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	ENE	NW	9
NNW	NNW	NNW	NNW	N	N	N	N	N	NNE	NNE	NNE	N	10
NW	NNW	NNW	NNW	NNW	N	N	N	N	NNE	NNE	NNE	NNE	11
NE	NW	NNW	NNW	N	N	N	N	N	N	NNE	ENE	NNE	12
NE	ENE	NNW	NNW	N	N	N	N	N	N	N	NNE	NE	13
ENE	ENE	NW	NW	NNW	N	N	N	N	N	NNE	NE	NE	14
NW	NW	NW	NNW	NNW	N	N	N	NNE	NNE	N	N	NNE	15
WNW	WNW	NW	NW	NNW	NNW	NNW	NNW	NE	N	ENE	ENE	NNE	16
WNW	WNW	WNW	WNW	WNW	N	N	NNE	ENE	ESE	ESE	ESE	NNE	17
WNW	NNW	NNW	NNW	NW	NNW	NNW	NNW	N	N	SE	ESE	NNE	18
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	ENE	NNE	SE	ESE	N	19
NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NNE	ENE	ENE	N	20
NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNE	ENE	ESE	N	21
NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	22
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	23
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNE	NNE	NE	SE	N	24
NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	NE	SSE	N	25
WNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	26
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	27
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	28
NNW	NW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	NE	N	Mean.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH.

Date.	Hours. 0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	N	N	N	NNE	NNE	NNE	NE	NNE	NNE	NNW	NNW	NNW
2	NNW	NNW	N	N	N	NNE	NNE	NNE	NE	ENE	NW	NW
3	NNW	NNW	NNW	N	N	NNE	NNE	NNE	ENE	E	NW	NNW
4	N	NNE	NNE	NNE	NNE	N	NNE	NNE	ENE	ENE	ENE	WNW
5	N	N	NE	N	NE	NE	ENE	ENE	ENE	NE	ENE	E
6	N	N	SSE	S	SSW	SW	SE	SSE	SE	SE	W	W
7	NNW	NNW	NNE	NE	SE	SE	ESE	ENE	ENE	ESE	WNW	NW
8	N	NNE	NNE	NNE	NNE	NNE	N	N	NNW	NNW	NNW	NNW
9	NNW	N	NE	NE	ESE	E	E	ESE	SE	SE	SE	SSW
10	NNW	N	N	N	NNE	NNE	NNE	NNE	ENE	ENE	NNW	NNW
11	N	N	N	N	NNE	ENE	ESE	E	E	ESE	NNW	NW
12	NNW	NNW	NE	NE	SE	SE	SE	SSE	W	WNW	WNW	NW
13	NNW	NNW	N	N	NNE	NNE	NE	NE	NNE	N	NNW	NNW
14	N	N	N	N	NNE	NE	NE	ENE	ENE	NNW	NNW	NW
15	NNW	NNW	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NW	WNW
16	NW	N	N	N	NNE	NE	NE	NE	NE	ENE	E	NW
17	NNW	NNW	NNW	N	NE	NE	NE	ENE	ENE	NNW	NNW	NNW
18	NE	N	N	NNE	NNE	NNE	NE	ENE	ENE	ENE	NW	NNW
19	N	N	NNW	N	N	NNE	NNE	NNE	ENE	NNW	NNW	NNW
20	NW	NW	NW	WNW	NW	WNW	NW	SE	NW	NW	NW	NW
21	WNW	WNW	NW	NNW	NNW	SE	ESE	SE	SE	W	WNW	WNW
22	WNW	WNW	SE	SE	SE	ESE	SE	SE	ENE	SE	W	WSW
23	N	NNE	NNE	ENE	NE	ENE	ENE	ENE	E	E	NNW	NNW
24	N	NNE	N	N	N	N	NNE	SE	SSE	SW	SW	WSW
25	SSW	SSW	S	SE	SE	S	S	SE	SW	WSW	SW	WSW
26	N	NE	NE	E	SE	SSE	NNW	NW	NW	W	WNW	WNW
27	NNW	NNW	WNW	WNW	W	WSW	SSW	SSE	SSE	SSW	W	WNW
28	NNW	NE	NE	NE	NE	NE	NE	E	ESE	ESE	SSW	W
29	N	NE	NE	NNE	NE	NE	NE	NE	ENE	ENE	S	NW
30	NNW	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNW	NNW	NNW
31	N	N	N	NE	NE	ENE	E	E	E	E	NNW	NW
Mean.	NNW	N	N	NNE	NNE	NE	NE	ENE	ENE	NNE	NW	NW

APRIL.

1	NNW	NNW	NNW	NNE	NNE	NE	NE	SE	SE	W	W	WNW
2	SSW	NW	NW	NW	NNW	NE	SE	SE	SE	SE	SW	WSW
3	NNW	N	N	ESE	ESE	NE	ENE	E	ESE	ESE	W	W
4	SW	NW	NNW	NNW	NNE	NE	SE	SE	SE	SE	S	W
5	NNW	N	NNE	NNE	NE	ENE	NE	ENE	ENE	NNW	NW	NW
6	NNW	N	N	NE	NNE	NE	NE	ENE	N	NNW	NW	NW
7	NNW	NNW	NW	NW	NW	NNW	NNW	NW	NW	NW	NW	NW
8	NNW	NNW	NNW	NW	NW	NW	NW	S	NW	NW	NW	NW
9	NW	NW	NW	NNW	NNW	NNW	NNW	NNE	NNW	NNW	NNW	NNW
10	NNW	NNW	NNW	N	NNE	NNE	NNE	NE	NNE	N	NNW	NW
11	NNW	N	N	N	NE	NE	NE	NE	E	NW	NW	NW
12	N	N	ENE	ENE	NE	NE	NNE	NNE	N	N	NNW	NNW
13	NNW	NNW	NNW	N	N	N	N	NNE	N	NNW	NNW	NNW
14	N	NNW	N	NNW	NNW	N	E	NNW	NNW	SW	SW	SW
15	SW	SW	SW	SW	SSW	SSW	SE	SE	SSW	SW	SW	SW
16	SSW	SSW	SW	WSW	WNW	N	E	ESE	ESE	ESE	S	WSW
17	SW	SSW	S	SSE	S	SE	SSE	S	W	W	W	W
18	WSW	WSW	W	SW	W	WNW	SSW	WSW	WSW	NW	W	W
19	NNW	NNW	NNW	NNW	N	N	N	N	SE	S	W	WNW
20	NNW	N	N	NE	NNE	NNE	NNE	N	N	NNW	N	N
21	SSW	SW	SW	SW	SW	WSW	W	NW	SSW	SSW	SW	WSW
22	N	NNE	NNE	N	N	NNE	NNE	N	N	N	N	NNW
23	N	NNE	NE	ENE	N	N	NNE	N	E	NNW	NW	WNW
24	NNW	NNW	NNW	NNW	NE	NE	NNW	NNW	NNW	NW	NW	WNW
25	NW	NW	NNW	NNW	N	NNE	NNE	NNE	E	SE	WNW	WNW
26	SW	SSW	SSW	SSW	SSW	S	S	SW	SSW	SW	WSW	WSW
27	NNW	NNW	NNW	NNW	NNW	NNW	ESE	SE	SE	S	NW	NW
28	N	NE	NE	NNE	NNE	NE	NE	NNE	E	NNW	NNW	NW
29	N	NNE	NE	NNE	NNE	NNE	NNE	N	N	N	NNW	NNW
30	N	N	NNE	NNE	SE	SW	SSW	SSW	SSW	SW	SW	WSW
Mean.	NNW	NNW	NNW	NNW	N	NNE	ENE	ENE	ENE	NW	WNW	WNW

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH.

Hours.												Mean.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	NNW	NNW	1
NW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	N	NNW	NNW	NNW	2
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	N	N	N	N	3
NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	NNW	NNW	N	4
NW	NW	NNW	NNW	NNW	NNW	NNW	N	N	N	NE	NNE	N	5
W	WNW	WNW	WNW	W	W	WSW	WSW	WSW	SW	WSW	WNW	W	6
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	7
NNW	NNW	NNW	NNW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	8
WNW	WNW	WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	9
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NE	N	N	N	10
NW	NW	NW	NW	NW	NNW	NNW	NNW	NNE	N	NNW	NNW	NNW	11
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	12
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NNE	NNW	13
NW	NW	NNW	NNW	NNW	NNW	WNW	NNW	NNW	NNW	NNW	NNW	NNW	14
WNW	WNW	WNW	NW	NW	NNW	NNW	NNW	NW	NW	W	W	NNW	15
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NW	NW	NW	NNW	N	16
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NE	NNW	17
NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	N	N	NNE	N	18
NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	N	NNW	W	WNW	NNW	19
NW	NW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	NW	20
WNW	WNW	NW	NW	NW	NW	NW	WSW	WSW	NW	NW	NW	NW	21
SW	WSW	W	WNW	NW	WNW	WNW	SW	SSW	NW	NW	NNW	W	22
NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	23
WSW	W	WNW	NW	NW	NNW	NNW	SSE	SSW	SSW	SSW	SSW	W	24
W	W	WNW	WNW	WNW	NW	NW	NNW	N	N	N	N	WSW	25
WNW	WNW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NW	26
WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NW	27
WNW	WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	28
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	29
NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	30
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	31
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	Mean.

APRIL.

WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	W	W	SW	NW	1
W	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NNW	WNW	2
W	W	W	W	W	W	WNW	WNW	WNW	WNW	WNW	W	W	3
W	WNW	WNW	WNW	NW	NW	NW	NNW	NW	NW	NNW	NNW	NW	4
NW	NW	WNW	NW	NW	NNW	NNW	NNW	NW	NW	NW	NNW	NNW	5
WNW	WNW	NW	WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW	NW	NW	6
NW	NW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	7
NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	8
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	9
NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	10
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	11
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NNW	NNW	12
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNW	13
SW	WSW	WSW	WSW	WSW	WSW	SSW	SSE	SSW	SW	WSW	SW	W	14
SW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	15
WSW	WSW	WSW	WSW	WSW	WSW	SW	SSW	SSW	SSW	SW	WSW	SW	16
WNW	WNW	WNW	WNW	WNW	W	W	W	WSW	WSW	W	NNE	WSW	17
WNW	WNW	WNW	WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	WNW	18
NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	N	NNW	WNW	19
NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	N	SSW	N	20
W	WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	WNW	21
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	22
WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NW	23
WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	24
WSW	WSW	W	WSW	WSW	W	WNW	WNW	W	WSW	SW	WSW	WNW	25
WSW	WNW	WNW	WNW	W	W	W	WNW	WNW	WNW	WNW	NW	WSW	26
NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NW	27
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	28
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	29
WSW	WSW	WSW	WSW	W	W	W	W	WSW	SW	SW	WSW	WSW	30
WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NW	Mean.

DIRECTION OF WIND, 1930.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY.

Date.	Hours.											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	WSW	WNW	WNW	WSW	SSW	SSE	S	SSW	SW	SW	WSW	WSW
2	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW
3	WNW	WNW	SW	SW	WNW	WSW	WSW	SW	SSW	SSW	SW	WSW
4	SSW	SW	SW	SW	SW	SW	SW	SW	SSW	WSW	W	WNW
5	N	NNW	NNW	WSW	WSW	S	SSW	SSW	SW	WSW	W	WNW
6	NW	SSE	SSE	S	SW	SW	W	WNW	S	NNW	NW	NW
7	N	N	NE	SSW	SW	WSW	WSW	WSW	W	WNW	WNW	WNW
8	NW	NW	WNW	WNW	NW	WSW	WSW	SSW	WSW	WSW	WSW	W
9	WSW	SW	SW	WSW	WNW	NW	NW	SE	NNW	NW	WNW	WNW
10	NW	WNW	WNW	W	WSW	WSW	WSW	W	WNW	SW	W	W
11	WSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
12	W	W	WSW	W	W	W	W	W	WNW	WNW	W	W
13	WNW	WNW	NW	WNW	WNW	WNW	W	WSW	WNW	W	W	W
14	WSW	WSW	W	W	W	WNW	WNW	WNW	WNW	W	WNW	WNW
15	WSW	WSW	W	W	W	W	WSW	WSW	WSW	WSW	W	W
16	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WSW	WSW
17	WNW	WNW	NW	NW	NW	NW	NW	NW	WNW	W	W	W
18	W	W	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW
19	WNW	WNW	WNW	WNW	NW	NNW	NNW	NNE	NNE	NNW	NNW	NNW
20	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	WNW	NW
21	NW	WNW	WNW	WNW	WNW	NW	NW	NW	NNW	NNW	NNW	NNW
22	NW	NW	NNW	NNW	NE	NE	NE	ENE	ENE	NNW	NNW	NNW
23	N	NE	NNW	NNW	NNW	N	N	N	N	NNW	NNW	NNW
24	NW	NW	NNW	NW	NW	NW	NW	NW	NW	NNW	NW	NW
25	WNW	NW	NW	NW	NW	NW	NNW	NNW	NW	WNW	NW	WNW
26	WNW	WNW	W	W	WNW	WNW	WNW	NW	NW	NW	NW	NW
27	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW
28	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NW
29	NW	NW	NW	WNW	NW	WNW	WNW	WNW	NW	NW	WNW	WNW
30	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	WNW
31	NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NW	NW
Mean.	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW

JUNE.

1	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW
2	W	W	W	W	W	W	WSW	WSW	WSW	WSW	W	W
3	W	W	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
4	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW
5	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW
6	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW
7	WSW	WSW	WSW	W	W	SSE	SSW	SSW	SSW	SW	WSW	W
8	SE	E	ENE	NW	NW	W	SW	NW	NNW	NW	NW	WNW
9	SSE	SSE	S	S	NNW	NNW	E	SSE	SSE	WSW	W	WNW
10	NNW	NE	SE	SE	SSE	S	SSE	S	SSE	SSE	SSW	SSW
11	SSE	SSE	SSE	SSE	SSE	S	S	S	SSW	SSW	SSW	SSW
12	S	S	S	SSW	S	S	S	S	S	SSW	SSW	SSW
13	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
14	SSW	SW	WSW	WSW	W	W	W	W	W	W	W	W
15	WSW	SW	WSW	WSW	WSW	WSW	W	WSW	SW	SSW	SSW	SSW
16	S	SSE	SSE	SSE	SE	SE	SE	S	S	SSW	WSW	WSW
17	S	S	S	SSE	SSE	SSE	SE	SSE	SE	SSW	SSW	SW
18	SW	SSW	S	S	S	S	SSE	S	SSW	SSW	SSW	SSW
19	S	S	S	SSE	SE	SSE	SSW	SSW	SSW	SSW	SSW	SSW
20	SSE	SSE	S	SSE	SE	SE	S	S	S	SSW	SSW	SSW
21	SSW	SSW	SSE	SE	SE	SE	SE	SE	SE	SSE	SSE	S
22	S	WSW	SW	SW	SW	SW	SSE	SSE	SSE	SSW	SW	SSW
23	SW	SW	SSW	WSW	SSW	SSW	S	SW	SW	SSW	SW	WSW
24	SW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW
25	SSW	SW	SW	SSW	SSE	SSW	SSW	SSE	WSW	WSW	WSW	WSW
26	S	S	W	W	SW	W	WSW	WNW	W	SW	WSW	S
27	SW	WSW	WSW	WSW	WSW	W	SSE	SSE	SSE	SE	SW	W
28	SW	SW	SW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW
29	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW
30	W	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
Mean.	SW	SW	SW	SW	SW	SW	SSW	SSW	SW	SW	SW	SW

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY.

Hours.												Mean.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
WSW	WSW	W	W	W	W	WSW	WSW	WSW	WSW	WSW	SW	WSW	1
WSW	WSW	WSW	W	W	W	WNW	WNW	WNW	WNW	NNW	NW	WSW	2
W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	SW	W	3
WNW	WNW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	WNW	4
WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	5
NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NW	6
NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	NNW	NW	NW	7
WNW	WNW	WNW	WNW	WNW	W	WSW	SW	SSW	SSW	SW	SW	WSW	8
WNW	WNW	WNW	NW	NW	NW	NNW	NW	NW	NW	NW	NW	WNW	9
W	W	W	W	W	WNW	WSW	WSW	WSW	WSW	SW	SW	W	10
WSW	W	WNW	W	W	W	W	W	WSW	WSW	WSW	WSW	WSW	11
W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	12
W	W	W	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	13
WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	W	W	W	W	14
WNW	W	W	WSW	W	W	W	W	W	WNW	WNW	WNW	W	15
WSW	W	W	W	W	W	W	W	W	WNW	WNW	WNW	W	16
W	W	W	W	W	W	W	WSW	WSW	WSW	WSW	W	W	17
WNW	WNW	WNW	NW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	WNW	18
NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	NW	19
NW	NW	NW	NW	NNW	NNW	NW	NNW	NW	NW	NW	NNW	NW	20
NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	21
NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NNW	NNW	NNE	NNW	22
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NNW	23
NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	SW	WNW	NW	24
NW	NW	NW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	WNW	NW	25
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NW	NW	26
NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	27
NW	NW	NW	NW	NW	NW	NW	NW	WNW	WSW	WNW	NW	NW	28
WNW	WNW	WNW	NW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	29
WNW	NW	NW	NW	NW	NW	NW	NW	WNW	NW	WNW	NW	NW	30
NW	NW	NW	WNW	NW	NW	WNW	WNW	WNW	WNW	W	WNW	NW	31
WNW	WNW	WNW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	Mean.

JUNE.

NW	NW	WNW	WNW	WNW	WNW	WNW	W	W	WNW	WNW	WNW	WNW	1
W	W	W	W	W	W	W	WNW	WNW	W	W	WNW	W	2
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	WNW	3
NW	NW	NW	NW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	WNW	4
NW	NW	NW	NW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	NW	5
WNW	WNW	WNW	WNW	WNW	WNN	WNW	WNW	W	W	W	WSW	WNW	6
W	WNW	WNW	WNW	WNW	W	W	W	W	W	WSW	WSW	WSW	7
NW	NW	NW	WNW	SW	SE	SE	SE	SE	SSE	SSE	SSE	S	8
WNW	WNW	WNW	NW	NW	NW	NW	NW	SE	S	WNW	NW	W	9
SSW	SSW	SSW	SSW	S	S	S	SSW	S	S	S	SSE	S	10
SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	11
SSW	SSW	SSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SW	SW	SSW	12
WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SSW	SSW	SW	13
W	WSW	W	W	WSW	WSW	W	W	WSW	WSW	W	W	W	14
SW	S	WNW	WSW	WSW	WSW	WSW	SSW	SW	SSE	SSE	S	SW	15
WSW	WSW	WSW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	16
SW	SW	SW	SW	SW	WSW	WSW	SW	SW	SW	SW	SW	SSW	17
SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	18
SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSE	SSE	SSE	SSW	19
SSW	SSW	SSW	S W	SSW	SSW	SSW	S	SSE	S	SSE	SSE	S	20
S	SSW	SSW	SSW	SW	SSW	SSW	SW	SW	SSW	SSW	S	S	21
SW	WSW	WSW	SW	SW	SW	SW	SW	SW	SW	WSW	SW	SW	22
WSW	WSW	W	W	W	W	W	W	W	WNW	SW	SW	WSW	23
WSW	WSW	WSW	WSW	WSW	SW	S	S	SSW	S	SSW	SSW	SW	24
SW	SSW	S	S	S	S	S	SSE	SSE	SSE	SSE	SSE	S	25
S	SSW	SSW	SSW	SSW	SW	SSW	SSW	SSW	SSW	SW	S	SSW	26
WSW	WSW	SSW	WSW	W	WSW	WSW	SW	WSW	WSW	WSW	SW	WSW	27
W	WNW	WSW	WSW	WSW	W	WSW	SW	SW	SW	WSW	WSW	WSW	28
SW	SW	WSW	WSW	SW	SW	SW	SW	WSW	W	W	W	WSW	29
WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	30
SW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SW	SW	SW	Mean.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY.

Date.	Hours.											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	W	W	W	W	W	W	W	NW	WSW	WNW	W	W
2	W	W	W	W	W	W	WNW	W	W	W	W	W
3	W	WNW	W	W	W	W	WNW	WNW	W	W	W	W
4	W	W	W	WNW	W	W	W	W	WSW	WSW	W	W
5	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	W
6	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W	W	WSW
7	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW
8	SW	SW	SW	WSW	WSW	WSW	SW	WSW	SW	WSW	WSW	WSW
9	WSW	WNW	WSW	WSW	WSW	WSW	WSW	SW	W	WSW	W	W
10	W	W	W	W	W	W	W	W	W	W	W	W
11	WSW	WSW	W	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW
12	WSW	WSW	W	WSW	WSW	WSW	WSW	W	WNW	NW	WNW	SW
13	WSW	WSW	WSW	W	W	W	W	W	W	WSW	WSW	W
14	WSW	W	W	W	W	W	W	W	W	W	W	W
15	W	W	W	W	WNW	WNW	W	W	W	WSW	WSW	WSW
16	W	W	W	W	W	W	W	W	W	W	W	W
17	W	W	W	W	W	W	W	W	WNW	WNW	W	W
18	W	W	W	W	W	W	W	W	W	W	W	W
19	W	W	W	W	W	W	W	W	W	W	W	W
20	W	W	W	W	W	W	W	WNW	W	W	W	W
21	W	W	W	W	W	W	W	W	WNW	WNW	WNW	W
22	W	W	W	W	W	W	W	W	W	W	W	W
23	W	W	W	W	W	W	W	W	W	W	W	W
24	W	W	W	W	WNW	WNW	WNW	W	W	W	W	WNW
25	WNW	WNW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	WNW	W
26	NW	WNW	NW	WNW	NW	NW	NW	NW	NW	NW	WNW	WNW
27	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	WNW
28	W	W	W	W	W	W	W	W	NW	WSW	NW	WNW
29	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W
30	W	W	W	WNW	W	W	W	W	W	WSW	WSW	W
31	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WNW
Mean.	W	W	W	W	W	W	W	W	W	W	W	W

AUGUST.

1	WNW	W NW	WNW	WNW	WNW	WNW	NW	NW	WNW	WNW	WNW	WNW
2	WSW	W	W	WSW	WSW	WSW	W	WSW	NNW	NW	NW	NNW
3	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NNW	NW	NW	WNW	NW
4	WNW	WNW	WNW	WNW	WNW	W	W	WNW	WNW	WNW	WNW	WNW
5	NW	NW	NW	NW	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW
6	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
7	W	W	W	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W
8	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W
9	W	W	WNW	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW
10	W	W	W	W	W	W	W	W	W	W	W	W
11	W	W	W	W	W	WNW	W	W	W	WNW	WNW	WNW
12	W	W	W	W	W	W	W	W	WNW	WNW	WNW	WNW
13	W	W	W	W	W	W	W	W	WNW	WNW	WNW	WNW
14	WNW	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW	W	NW	WNW
15	WNW	WNW	WNW	W	WNW	NW	W	W	W	WNW	WNW	WNW
16	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WNW
17	W	W	W	WNW	WNW	WNW	NW	NW	NW	NW	NW	WNW
18	W	W	W	W	W	W	W	WNW	WNW	W	W	W
19	W	W	W	W	W	W	WSW	WNW	WNW	WNW	NNW	WNW
20	W	WSW	W SW	WSW	WSW	W	W	W	W	W	NNW	SW
21	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W
22	W	W	W	WNW	WNW	WNW	NW	NW	NW	WNW	WNW	WNW
23	W	W	W	W	W	W	W	WNW	W	WNW	W	W
24	W	W	WSW	WSW	WSW	SW	WSW	SW	WSW	WSW	WSW	SW
25	W	W	W	W	W	WSW	W	WSW	WSW	WSW	W	W
26	SW	W	WSW	WSW	WSW	WSW	SW	SW	SW	WNW	W	WNW
27	W	WSW	WSW	WSW	WSW	WSW	SW	SW	SSW	SSW	SSW	SSW
28	SW	SW	SW	SW	SSW	W	WSW	W	WNW	WNW	WNW	NW
29	SW	SW	W	NW	WNW	WNW	WNW	WNW	WNW	WNW	W	WNW
30	WSW	W	SW	SW	SE	SSE	SE	SSE	SSW	SSW	SSW	SW
31	NNW	NNW	NNW	NNW	NE	ESE	E	E	E	ESE	SE	SE
Mean.	W	W	W	W	W	W	W	WNW	WNW	WNW	WNW	WNW

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY.

Hours.												Mean.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
W	W	W	W	W	W	W	W	W	W	W	W	W	1
W	W	W	W	W	W	W	W	W	W	W	W	W	2
W	W	W	W	WNW	W	W	W	W	W	W	W	W	3
W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	4
WSW	W	W	W	W	W	W	W	WSW	WSW	WSW	WSW	WSW	5
WNW	W	W	W	W	W	WSW	WSW	WSW	WSW	WSW	SW	W	6
SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	7
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	8
W	W	W	W	W	W	W	W	W	W	W	W	W	9
WSW	W	W	W	W	W	W	WSW	W	W	W	W	W	10
WSW	WSW	W	WSW	W	W	W	W	WSW	WSW	W	WSW	WSW	11
WSW	W	W	W	WNW	WNW	W	W	W	WSW	WSW	WSW	W	12
W	W	W	W	W	W	WSW	WSW	WSW	WSW	WSW	WSW	W	13
W	WSW	WSW	WSW	WSW	W	W	W	W	W	W	W	W	14
WSW	WSW	WSW	W	W	WSW	WSW	WSW	W	W	W	W	W	15
W	W	WSW	WSW	W	W	W	WSW	WSW	WSW	WSW	W	W	16
W	WNW	W	WNW	W	W	W	W	W	W	W	W	W	17
W	W	W	W	W	W	W	W	WSW	WSW	WSW	W	W	18
WNW	WNW	W	WNW	WNW	WNW	WNW	W	W	W	W	W	W	19
WNW	WNW	WNW	WNW	W	W	WNW	W	WNW	WNW	W	W	W	20
NW	NW	WNW	WNW	WNW	WNW	W	W	W	W	W	W	W	21
W	W	W	W	W	W	W	W	W	W	W	W	W	22
W	W	W	W	W	W	W	W	W	W	W	W	W	23
WNW	WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW	NW	WNW	24
WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW	25
NW	WNW	NW	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	26
W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	WSW	WNW	27
WNW	WNW	WNW	WNW	WNW	W	WNW	W	W	WNW	W	W	WNW	28
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	WNW	29
W	W	W	W	W	W	WNW	WNW	WNW	WNW	WNW	WNW	W	30
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	WNW	WSW	WNW	31
W	W	W	W	W	W	W	W	W	W	W	W	W	Mean.

AUGUST.

WNW	NW	NW	NW	WNW	NW	SW	SSW	S	SSE	SSE	W	WNW	1
NW	WNW	NW	NW	NW	NW	WNW	NW	WNW	NW	NW	WNW	WNW	2
WNW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	3
WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NNW	NW	WNW	4
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	5
W	W	W	W	W	W	W	W	W	W	W	W	WNW	6
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	7
W	WNW	WNW	WNW	WNW	W	W	W	W	W	WNW	W	WNW	8
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	W	WNW	9
W	W	W	W	W	W	W	W	W	W	W	W	W	10
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	WNW	11
WNW	WNW	WNW	NW	WNW	WNW	WNW	W	W	W	W	W	WNW	12
W	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WNW	13
WNW	WNW	WNW	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	14
W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW	15
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WNW	16
WNW	WNW	W	WNW	NW	WNW	WNW	WNW	W	W	W	W	WNW	17
W	W	W	W	W	W	W	WSW	W	W	W	W	W	18
WNW	W	WNW	W	W	WNW	W	W	W	W	W	W	W	19
W	W	W	W	WSW	SW	WSW	WSW	W	W	WSW	SW	W	20
W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WNW	W	W	21
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WNW	22
NNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	23
WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	24
WSW	WSW	W	W	W	W	W	WSW	WSW	WSW	SW	SW	WSW	25
WNW	WNW	WNW	WNW	W	W	W	W	WSW	WSW	WSW	W	W	26
SSW	WSW	W	W	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SW	27
NW	WNW	WNW	WNW	WNW	WNW	W	W	W	W	SW	SW	W	28
WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW	W	W	SW	WSW	WNW	29
W	W	W	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	W	30
SE	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NE	NE	NNE	31
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	WNW	Mean.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER.

Date.	Hours.											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	NE	NE	NE	NE	NE	NE	ENE	ESE	ESE	SE	SE	S
2	NNE	NNE	NE	NE	NE	NE	NE	ENE	E	NNW	NNW	NNW
3	NNW	N	N	NE	NE	NE	NE	NE	E	NNW	NNW	NW
4	NW	NNW	NNW	NNW	NNW	NNW	NE	NNW	NNW	N	NNW	NNW
5	NNW	NNW	NNW	NW	NW	NW	NE	ESE	SE	SSE	WSW	WNW
6	NW	NW	NNW	NNW	NNW	N	N	N	N	N	NNW	NNW
7	N	NNW	NNW	ESE	SSE	SE	SSE	SSE	S	SSW	SW	SW
8	SSW	SSW	SSW	SW	SW	SW	SW	S	S	SW	SW	WSW
9	NW	NW	NW	NW	NW	WNW	NW	NW	NW	NW	NNW	NNW
10	W	W	SW	W	W	NNW	NNW	NW	NNW	NW	NW	WNW
11	SW	NNW	NW	WNW	NW	NW	NW	NW	WNW	NW	NNW	NNW
12	WNW	WNW	W	W	WNW	WNW	WNW	WNW	WNW	WSW	WSW	W
13	WNW	WNW	WNW	WNW	WNW	WNW	W	WNW	W	WSW	WSW	WNW
14	WNW	WNW	W	W	W	NW	NW	NNW	NNE	ESE	S	SSW
15	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
16	WNW	WNW	WNW	W	WNW	WNW	WNW	W	W	W	WNW	W
17	WNW	WNW	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW	W	WNW
18	W	W	W	W	W	W	W	W	W	W	WNW	WNW
19	WSW	WSW	WSW	W	W	WSW	SE	SE	SSW	SW	SSW	SW
20	W	WSW	W	WSW	W	SW	WNW	E	SSE	SSW	SSW	SSW
21	NW	NW	NNW	NW	WNW	WNW	NW	NW	NE	ENE	NW	NW
22	W	WSW	WSW	WSW	WSW	SE	SSE	SSE	SSE	N	NW	W
23	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	SE	SE	SW
24	WSW	WSW	W	WSW	SE	S	SSW	SE	SE	SE	SSE	SW
25	N	NE	NE	NE	E	SE	N	SE	SE	N	SE	WNW
26	N	NE	NE	NE	NE	ENE	ENE	ENE	ENE	N	NNW	NNW
27	N	NNE	NNE	NE	NE	ENE	NE	NE	NNE	N	NNW	NNW
28	NNW	NNW	NNW	N	NE	NNE	NE	ENE	ENE	E	ESE	NW
29	NNW	N	NNW	NNW	NNW	N	N	ENE	ESE	ESE	ESE	ESE
30	NNW	NNW	NNW	NE	NE	ESE	ESE	SSE	SSW	SW	WSW	W
Mean.	NNW	NW	NW	WNW	WNW	NW	NW	N	WNW	WNW	WNW	WNW

OCTOBER.

1	NNW	NNW	NNW	NNW	NNW	N	N	NNW	NNW	NNW	NW	NNW
2	NNW	N	NNE	N	NNE	NNE	NNE	N	N	NNW	NNW	NNW
3	N	ENE	NNW	NNW	NNW	N	N	ENE	ESE	SE	SE	NNW
4	N	N	N	N	N	NE	NE	ENE	NNW	NNW	NNW	NNW
5	NE	ENE	ENE	ENE	E	ENE	ESE	SE	SE	ESE	SSE	NW
6	NNE	NE	NE	NE	NNE	NE	NE	ENE	ENE	E	E	NW
7	ENE	NNE	NNE	NE	NE	NNE	ENE	ESE	E	E	E	NNE
8	NNE	ENE	ESE	ESE	ENE	ESE	E	E	ESE	ESE	E	ESE
9	NNE	ENE	E	ENE	ENE	SSE	SSE	ESE	ESE	ESE	ESE	ESE
10	ESE	SE	E	NNE	NNE	NNE	E	ESE	ENE	ESE	SE	ESE
11	ESE	ENE	NNE	ENE	E	ENE	ENE	ESE	E	E	ENE	ESE
12	E	ENE	ENE	E	E	ENE	E	E	ENE	E	ENE	NW
13	SSW	SSW	SE	SE	SE	ENE	E	ENE	E	E	E	E
14	NE	SE	SE	ESE	ESE	ESE	E	ESE	SE	ESE	E	SE
15	ENE	ENE	ESE	NNE	ENE	E	E	E	ESE	ESE	ESE	SE
16	SE	SE	ESE	ESE	E	ENE	ENE	ENE	E	E	ENE	E
17	ENE	ENE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SSE
18	SE	SE	E	E	ENE	SE	SE	ESE	SE	ESE	ESE	NW
19	SE	SE	SE	ENE	ESE	SSE	SE	SE	SE	SE	SE	SSE
20	SE	SE	SE	ENE	ESE	SE	ENE	ENE	SE	SSE	SW	SW
21	SE	N	NNE	NE	NNE	ENE	ENE	ENE	ENE	E	E	SSE
22	N	N	NE	ENE	ENE	ENE	ESE	E	SE	SE	SSE	E
23	N	N	NNE	NE	NE	NE	NE	ENE	ENE	ENE	NNW	NNW
24	NNE	NNE	N	NNE	NE	NNE	NNE	NNE	ENE	ENE	ENE	E
25	NE	NE	ENE	ENE	ENE	NNE	NE	E	E	ENE	E	ENE
26	ENE	NE	NE	ENE	ENE	ENE	ENE	ENE	E	ENE	ENE	ENE
27	ESE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE	E	ESE	ESE
28	ENE	SE	SE	E	ENE	ENE	ENE	ENE	ENE	ESE	E	E
29	ESE	SE	SE	SE	SSE	SE	SE	SE	SSE	S	SSW	SSW
30	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW
31	N	N	N	NNE	NNE	N	N	ESE	ESE	ENE	E	E
Mean.	ENE	E	E	ENE	E	E	E	E	ESE	ESE	ESE	ESE

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER.

Hours.												Mean.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
WNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	1
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	N	2
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	3
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	4
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	5
NNW	NNW	NW	NW	NW	WNW	WNW	WNW	W	WSW	SE	N	NNW	6
WSW	W	WNW	WNW	WNW	WNW	WNW	ESE	SSE	SSE	S	WSW	SSW	7
W	W	NNW	NNW	NNW	NNW	N	N	S	SSW	SSW	SSW	WSW	8
N	NNW	NNW	NNW	NW	NW	NW	WNW	WNW	W	W	W	NW	9
NNW	NW	NNW	NNW	N	E	ESE	NW	NW	W	SW	SW	NW	10
NNW	NNW	NNW	NW	NW	WNW	WNW	WNW	WNW	WNW	W	W	NW	11
W	W	W	W	WSW	WSW	WSW	W	W	WNW	W	W	W	12
WNW	WNW	WNW	WNW	W	W	W	NW	WNW	WNW	WNW	WNW	WNW	13
W	WNW	NNW	NW	NNW	WNW	NW	WNW	WNW	W	W	W	WNW	14
WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW	WNW	W	NW	NW	WNW	15
W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	16
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	WNW	17
W	WNW	WNW	WNW	NW	WNW	WNW	NW	NW	WNW	SW	WSW	WNW	18
W	WNW	WNW	WNW	NW	NW	NW	NW	WNW	WNW	WNW	W	W	19
W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	W	20
NNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	NW	21
SW	WSW	W	W	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	22
WSW	W	WNW	NW	WNW	WNW	WNW	WNW	NW	W	W	WSW	S	23
W	W	NW	NW	NW	NNW	NNW	NNW	NNW	NW	NNW	NNW	WNW	24
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	25
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	26
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	27
NNW	NNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	28
E	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	29
W	WNW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NW	30
NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	WNW	NNW	NW	Mean

OCTOBER.

NNW	WNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	1
NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	N	WNW	NNW	2
NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	N	N	3
NNW	NNW	NNW	NNW	NW	NNW	NNW	N	N	N	NNE	NE	N	4
NW	NW	NW	NW	NW	NNW	NNW	NNW	N	NNW	N	NNE	N	5
NNW	NNW	NNW	NNW	NNW	SE	NW	E	SSW	SSE	SE	ESE	NE	6
NNW	NNW	NNW	NNW	NNW	N	N	NNE	E	SE	E	N	NNE	7
ESE	WSW	NNW	NW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	8
E	W	WNW	WNW	NW	NW	SSW	SSW	SSW	SSE	SE	SE	SE	9
SW	SW	WSW	W	WNW	WNW	SSE	SSE	SSE	NNW	SE	SE	SE	10
ESE	W	W	WNW	NW	SE	W	WNW	SE	ESE	SE	SE	E	11
NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	NNE	SSW	SSW	NE	12
WNW	NW	NNW	NNW	NNW	NNW	NNW	N	N	NNE	ENE	NE	NNE	13
S	WNW	W	W	W	WNW	NW	NNW	N	NNE	NE	NE	E	14
SSE	SSE	WNW	WNW	WNW	WNW	WNW	NW	NNW	NNW	NNW	ESE	ENE	15
ESE	NNW	NNW	NW	NNW	NNW	NNW	N	N	NNE	NE	NE	NE	16
W	WNW	WNW	WNW	NW	NW	NNW	NNE	NNE	NNE	Calm	SE	E	17
NW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	ESE	NE	NNE	18
W	W	WNW	WNW	WNW	NW	NW	NNE	NE	ENE	ENE	SSW	S	19
WSW	W	W	WNW	WNW	NW	NNW	NNW	NNW	NE	SSE	SE	SSE	20
NW	NW	NW	NW	NW	NNW	NNW	N	NNE	NE	NNW	N	N	21
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	N	N	N	22
NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	NNE	ENE	N	23
NW	NW	NNW	NNW	NNW	NNW	N	N	NNE	ENE	ENE	NE	NNE	24
E	W	NNW	NNW	NNW	NNW	NNW	NNW	NNE	NNE	ESE	ENE	NNE	25
ENE	NW	NNW	NNW	NNW	NNW	NNW	N	N	NNE	NE	E	NNE	26
NNE	W	NW	NNW	WNW	NNW	N	N	N	N	NNE	ENE	ENE	27
E	E	NE	NE	NE	S	S	ESE	ESE	ESE	ESE	ESE	E	28
SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	29
SSW	SW	W	NNW	NNW	NNW	NNW	NNW	N	N	NNW	N	SW	30
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	31
NW	NW	NW	NW	NW	NW	NNW	N	N	NNE	NE	ENE	NNE	Mean

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER.

Date.	Hours.											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	N	NNE	ENE	ENE	ENE	ENE	ENE	NE	NNE	NNW	NNW	NW
2	SSE	SSE	SE	SE	SSE	SE	SE	SSW	SSW	SSW	SW	W
3	NE	E	ENE	N	N	N	N	N	N	Calm	NW	NW
4	NNE	NNE	ENE	NE	NE	NNE	NNE	ENE	ENE	ENE	ENE	ENE
5	ENE	ESE	ENE	E	ESE	ESE	ESE	ESE	E	ENE	ENE	ENE
6	ENE	ENE	ENE	ENE	E	E	ESE	ESE	ESE	ESE	E	ENE
7	ESE	E	ENE	E	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE
8	ENE	E	E	E	ENE	E	ESE	ESE	ESE	ESE	ESE	ESE
9	NE	ENE	NE	NE	ENE	E	E	ESE	ENE	ENE	ENE	ENE
10	NE	ESE	ENE	ENE	E	E	E	E	E	E	ENE	ENE
11	E	SE	ESE	ESE	E	E	SE	E	E	E	E	ESE
12	E	ESE	NE	ESE	ESE	E	E	ESE	ESE	ESE	E	E
13	ENE	ESE	E	ENE	ENE	ENE	E	E	E	E	E	E
14	ESE	ESE	ENE	ENE	ENE	E	E	ENE	ENE	ENE	ESE	SE
15	SE	SE	ESE	ESE	ENE	ENE	ENE	E	E	ESE	ESE	ESE
16	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE
17	NE	NE	NNE	NNE	NE	ENE	ENE	ENE	ENE	ENE	ENE	NE
18	NNE	NNE	ENE	NE	NE	ENE	ENE	ENE	ENE	ENE	NNW	NNW
19	NNE	NNE	NNW	N	NE	N	NE	NE	E	ESE	ESE	SE
20	ESE	E	ESE	N	NE	NE	NE	E	E	ESE	ESE	WNW
21	SE	SE	ESE	SE	SE	SE	SE	ESE	ESE	ESE	SE	WNW
22	NE	SE	ESE	E	NNE	ENE	E	E	ENE	ESE	ESE	W
23	NNE	NNE	NNE	NE	NE	ESE	NE	NE	E	NNW	N	N
24	N	N	N	NE	N	NE	ESE	ESE	SE	ESE	SSE	W
25	ENE	ENE	ENE	ENE	ENE	ESE	E	E	E	ESE	ESE	SE
26	ENE	E	E	ENE	ENE	E	E	E	E	ENE	E	ESE
27	E	E	E	E	ESE	ESE	E	E	E	ENE	ENE	E
28	E	E	E	E	E	ESE	E	E	E	E	E	ESE
29	E	E	E	E	ESE	E	E	E	E	E	E	E
30	NE	E	E	E	E	E	E	E	E	E	ENE	ENE
Mean	ENE	E	ENE	ENE	ENE	E	E	E	E	E	E	ENE

DECEMBER.

1	NE	NE	NE	ENE	ENE	NE	NE	ENE	ENE	E	ENE	E
2	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	E	ESE	E	NW
3	ENE	NE	NE	ENE	ENE	NNE	ENE	ENE	E	E	S	SE
4	NW	WNW	SE	SE	SSE	SSE	SE	SE	SE	SE	WSW	W
5	SE	SE	SE	N	NNE	NNE	NNE	N	SE	ESE	SE	W
6	NNE	NE	E	ENE	N	NNE	NNE	NNE	ENE	ENE	NNW	NNW
7	ENE	N	N	N	NNE	NNE	NNE	NNE	NNE	NE	NNW	NNW
8	NE	NE	N	N	NE	E	NE	NE	NNE	N	NNW	NNW
9	ENE	ENE	ENE	NE	NNE	NNE	NE	NE	NE	ENE	E	NNW
10	NNE	NNE	NE	NE	NE	ENE	ENE	ENE	E	E	E	E
11	NE	NNE	NE	ENE	NE	ENE	ENE	ENE	ENE	N	E	SE
12	S	ENE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ESE	ESE
13	ENE	ENE	ENE	ENE	E	ENE	NE	NE	ENE	ENE	ENE	ENE
14	SE	SE	SE	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	NNW
15	SE	SE	SE	NW	NE	NE	NE	NE	ENE	ENE	NNW	SE
16	SE	SE	SE	SE	SE	E	E	ENE	ENE	ENE	NNW	NNW
17	NNE	ENE	ESE	ENE	ENE	ENE	ENE	ENE	NE	N	NNW	NNW
18	NE	NE	NE	NE	E	E	E	E	E	ESE	ESE	SE
19	NNE	NE	NE	NE	E	E	NE	NE	ENE	ENE	ENE	ENE
20	E	E	ENE	ENE	ENE	E	ENE	E	ESE	ENE	ENE	ENE
21	ESE	ENE	ENE	ENE	ENE	E	E	E	ENE	ENE	ENE	NE
22	E	ESE	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE
23	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE
24	ENE	ENE	ENE	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE
25	NE	ESE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E
26	ENE	ENE	ENE	NE	ENE	ENE	ENE	E	E	E	ENE	NNW
27	NE	NE	NE	N	NE	NNE	NE	E	NE	ENE	ENE	ENE
28	N	N	NE	NE	ENE	NE	NE	NE	NNE	N	N	N
29	NE	NNE	NNE	NNE	NNE	NNE	NE	NE	ENE	NE	NNW	NNW
30	NNE	NE	NE	NE	NE	NE	NE	NE	NE	ENE	ENE	NNW
31	NNE	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	ENE	ENE
Mean.	ENE	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NNE

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER.

Hours.												Mean.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
NW	NW	NW	NW	NW	NNW	NNW	NNW	N	N	NE	ENE	N	1
WNW	WNW	WNW	WNW	NW	NNW	NNW	N	NNE	NE	NNE	NE	WNW	2
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	NNW	3
ENE	ENE	NNW	ENE	ENE	NE	NE	NE	NE	NE	NE	NE	NE	4
ENW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	NE	ENE	ESE	NE	5
ENE	ENE	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	NE	N	NE	6
ESE	ESE	ENE	ENE	ENE	NNW	NNW	N	NNE	NNE	E	ENE	E	7
ENE	ESE	NW	NNW	NNW	NNW	NNW	N	NNE	NNE	NE	NNE	ENE	8
ESE	NW	NW	NNW	NNW	NNW	NNW	NNW	N	NNE	NE	NNE	NNE	9
ESE	W	NW	NW	NNW	NNW	NNW	NNW	N	NE	NNE	ENE	NE	10
ESE	ESE	WNW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	NE	ENE	ENE	11
WNW	WNW	WNW	NW	NW	NNW	NNW	NNW	N	NE	NE	ENE	NE	12
E	SE	ENE	NW	NNW	NNW	NNW	NNW	NNE	NNE	NNE	ENE	ENE	13
E	E	SE	NW	NNW	NW	NW	NW	NW	NNE	NNE	NE	ENE	14
SE	SE	E	NW	NW	NNW	NNW	N	NNE	NE	NE	ESE	ENE	15
ENE	SE	W	NW	NW	NNW	NNW	NNW	N	NNE	NE	ENE	NE	16
NE	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	NNE	NNE	17
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NNE	N	18
WNW	NW	NW	NW	NW	NNW	NNW	NNW	N	NNE	NE	ESE	N	19
NW	NW	NW	NW	NW	NW	NNW	NNW	N	N	NE	ENE	N	20
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	NNW	NE	NE	N	21
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	NE	NNE	N	22
NNW	NNW	NNW	NNW	NNW	N	N	N	N	NNE	N	N	N	23
W	W	W	W	W	W	NNW	NNW	N	NE	NE	E	NNW	24
SSE	W	NW	NW	NW	NNW	NNW	NNW	N	N	NNE	NE	NNE	25
ESE	E	NE	NE	NNW	NNW	N	N	NNE	NE	E	ENE	ENE	26
E	E	NE	NNW	NNW	NNW	N	N	NNE	NNE	NNE	NE	NE	27
E	ENE	NW	NW	NNW	NNW	N	N	N	NNE	NNE	ENE	NE	28
ENE	ENE	ENE	NNW	NNW	N	N	N	N	NNE	NE	E	ENE	29
ENE	ESE	NW	NW	NW	NNW	NNW	NNW	N	NNE	NNE	NNE	NE	30
NE	N	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NE	NE	NE	Mean.

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NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	NNE	NE	NE	NNE	1
NW	NW	NW	NNW	NNW	NNW	N	N	NE	NE	ENE	ENE	NNE	2
S	WNW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	NW	N	3
WNW	WNW	WNW	NW	NW	NW	NNW	N	NE	NE	ENE	ESE	NW	4
W	W	WNW	NW	NW	NW	NW	NNW	N	N	N	NE	NNW	5
NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	NNE	NE	N	6
NNW	NNW	NNW	NNW	N	N	N	N	NNE	NNE	NE	NE	N	7
NNW	NNW	NNW	NNW	NNW	N	N	N	N	NNE	NNE	NNE	N	8
NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	NNE	NNE	NNE	NNE	9
NW	NNW	NNW	NNW	NNW	N	N	N	N	N	NNE	NE	NNE	10
N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NE	NE	SE	NNE	11
S	W	WNW	WNW	WNW	NW	NNW	N	NE	ENE	SE	SE	NE	12
NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	N	NE	NNE	13
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NE	N	14
NW	NW	NW	NNW	NNW°	NNW	NNW	NNW	N	N	N	SE	N	15
NNW	NNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NE	NE	N	16
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NE	N	17
NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	N	NE	NE	NNE	18
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	SE	SE	NNE	19
ESE	ESE	ENE	SE	NNW	N	N	N	N	N	NNE	NNE	NE	20
NE	ENE	NW	NW	NNW	NNW	N	N	N	NNE	E	E	NE	21
ENE	NE	NW	NNW	NNW	NNW	N	N	N	N	N	E	NNE	22
ENE	ENE	N	NW	NW	NW	NNW	NNW	N	NE	E	ENE	NE	23
ENE	ENE	ENE	NW	NW	NW	NNW	NNW	NNW	N	N	N	NNE	24
SE	WNW	NW	NW	NW	NNW	NNW	N	N	N	NNE	ENE	NE	25
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NE	NE	NNE	26
NNW	NNW	NNW	N	N	N	N	N	NNW	NNE	N	N	N	27
NW	NW	NW	NNW	NNW	NNW	NNW	N	N	NNW	NNW	NE	N	28
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NNE	NNE	N	29
NNW	NNW	NNW	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	30
NE	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	NNE	NNE	31
NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	NE	NNE	Mean.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

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Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	67·2	67·0	66·9	67·2	67·3	66·9	66·6	67·1	68·3	70·5	73·0	73·6	74·5	75·5	76·1
2	67·1	66·5	65·9	64·9	64·8	65·5	64·1	63·2	67·2	69·8	73·6	74·0	75·2	75·8	76·3
3	67·6	67·2	66·6	66·4	66·8	65·4	66·2	67·3	68·8	71·2	73·1	76·0	77·4	79·0	79·4
4	70·1	69·5	69·1	68·5	67·8	67·5	67·2	68·0	69·8	71·0	73·2	75·1	77·0	77·3	77·5
5	69·3	68·5	67·6	67·9	68·4	67·3	66·4	66·3	68·7	72·0	74·0	75·7	77·4	79·2	77·8
6	69·4	68·7	67·6	67·5	67·2	66·4	65·8	65·9	68·7	72·0	74·3	75·4	75·7	76·4	76·9
7	69·0	68·0	67·5	66·8	66·0	66·0	66·4	68·2	70·0	72·4	75·8	78·8	78·6	79·5	80·1
8	72·2	71·3	70·5	70·6	70·6	70·5	70·4	70·8	72·5	74·8	77 3	80·8	83·0	83·8	83·5
9	73·5	73·0	73·5	73·0	73·7	72·6	72·1	72·7	73·9	76·0	78·3	82·3	85·1	**86·0**	84·8
10	76·8	75·8	74·4	74·3	74·1	73·7	73·2	74·6	76·0	77·7	81·8	83·8	83·6	84·2	84·4
11	75·3	74·8	74·5	74·4	74·2	73·4	73·2	73·5	74·9	76·4	79·0	81·5	83·6	83·5	82·8
12	74·3	74·2	73·5	73·5	73·4	73·1	72·4	72·5	74·1	75·9	78·2	79·7	80·6	80·5	80·0
13	74·8	74·5	74·0	73·8	73·6	72·5	72·3	73·0	73·6	74·5	77·0	78·9	79·6	79·4	78·2
14	71·9	72·2	72·5	72·1	71·6	71·0	71·0	71·9	72·3	74·0	75 1	75·3	76·5	76·4	76·2
15	68·9	68·4	68·5	67·7	67·0	67·0	66·4	66·8	68·8	70·8	72·8	73·4	74·0	74·4	75·0
16	66·0	65·5	64·7	63·4	63·4	62·8	**62·0**	62·9	66·0	69·0	71·6	74·3	75 3	75·7	76·3
17	67·1	66·0	64·9	64·3	64·5	64·5	64·4	64·3	67·5	71·0	74·8	76·4	77·3	78·2	77·7
18	67·9	66·5	66·1	65·6	65·2	64·4	63·8	65·3	68·9	70·6	73·5	75·2	77·0	77·2	77·4
19	68·7	67·5	67·3	66·5	66·1	66·2	65·2	66·3	68·2	70·3	73·0	75·2	77·4	78·3	78·7
20	69·5	69·2	68·6	67·7	67·8	68·0	66·7	67·2	70·4	73·3	77·2	78·3	79·5	79·7	79·3
21	68·8	68·5	68·2	67·4	67·5	66·7	66·5	67·3	69·9	72·5	75·1	76·8	78·2	78·5	78·5
22	68·8	68·4	67·5	68·4	68·7	68·6	68·5	69·0	71·9	74·2	75·7	78·6	80·7	80·8	79 7
23	70·3	69·8	70·1	69·5	68·3	68·8	68·4	68·9	70·2	72·7	76·3	78·5	82·4	83·1	82·2
24	72·3	71·9	72·0	70·0	70·4	69·9	69·1	71 4	72·7	74·8	77·5	80 0	83·3	81·3	80·4
25	73·8	73·5	72·8	72·1	71·7	71·5	70·8	71·0	72·7	74·8	76·5	80·2	81·1	82·5	82·5
26	72·8	72·0	71·8	72·0	73·2	72·1	72·0	72·8	75·8	77·8	79·5	81·5	82·2	80·8	82·0
27	73·6	74·5	74·5	74·0	73·5	72·0	70·8	72·3	74·2	76·8	79·0	80·4	80·4	79·7	79·2
28	72·0	72·0	71·9	71·5	71·5	70·8	69·9	71·8	73·7	75·8	78·4	79·0	80·6	81·1	81·5
29	74·0	73·8	73·5	73·5	72·5	71·1	70·0	70·8	73·5	75·7	76·8	77·1	77·1	77·8	77·1
30	72·3	72·0	71·0	70·5	69·5	69·2	69·3	70·0	71·5	73·0	74·5	75·5	75·8	76·0	75·6
31	71·0	70·8	70·7	70·0	69·5	69·5	69·3	69·5	71·1	72·0	73·8	75·2	76·2	76·5	76·0
Mean . .	70·8	70·4	69·9	69·5	69·3	68·9	**68·4**	69·1	71·2	73·3	75·8	77·6	78·9	**79·3**	79·1
Variation .	−2·7	−3·1	−3·6	−4·0	−4·2	−4·6	**−5·1**	−4·4	−2·3	−0·2	+2·3	+4·1	+5·4	**+5·8**	+5·6

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1	68·5	68·0	67·8	67·5	67·8	68·2	67·4	67·5	69·9	71·5	72·8	74·0	**74·6**	74·4	74·0
2	64·3	64·0	63·5	62·8	62·5	**61·5**	**61·0**	62·5	65·8	67 1	70·0	**72·3**	73·6	73·8	73·6
3	64·0	63·0	62·8	63·0	63·5	62·6	62·8	63·1	64·0	66 7	69·5	72·5	74·3	75·0	75·2
4	68·0	67·6	66·3	66·3	66·0	65·5	64·9	66·0	67·2	69·8	73·2	75·7	76·5	78·3	76·0
5	69·0	67·8	66·8	67·1	66·4	66·0	65·6	66·3	68·5	70·7	73·6	75·9	76·5	76·5	75·9
6	65·1	65·2	65·3	65·4	65·6	65·2	65·2	65·7	68·0	71·2	74·5	77 1	80·4	82·4	84·0
7	67·2	67·5	68·5	68·6	69·0	68·9	68·4	69·0	72·3	75·8	79·8	82·3	84·7	86·2	82·7
8	71·6	71·2	71·1	70·8	69·6	70·6	70·2	70·2	72·1	74·6	78·0	79·5	81·0	80·7	81·0
9	74·7	74·6	74·5	74·5	74·3	73·3	72·7	72·9	74·0	75·5	76·5	76·8	76·8	76·0	74·8
10	70·0	69·7	69·5	69·5	69·0	68·4	67·5	67·8	69·4	71·8	75·0	76·7	77·4	77·5	77·5
11	66·1	65·0	65·0	64·6	64·3	64·3	66·5	68·3	70·5	73·5	75·7	78·9	78·9	78·7	78·6
12	68·3	67·3	66·3	66·0	66·4	66·9	67·2	68·4	71·2	74·0	77·6	81·4	84·9	82·8	81·8
13	70·7	71·4	70·5	70·8	69·8	69·5	69·6	70·5	72·3	75·9	79·5	82·8	87.1	89·0	87·9
14	71·1	71·8	71·7	71·1	70·5	70·0	69·8	70·8	73·2	76·0	79·0	83·0	87·6	**89·4**	87·1
15	70·1	70·2	70·4	70·6	69·7	68·8	68·4	69·6	71·9	74·3	77·2	81·5	85·9	86·4	87·3
16	71·4	71·1	70·5	69·9	70·2	69·2	68·8	70·2	72·3	74·3	77·0	80·2	83·8	83·5	82·8
17	70·5	70·2	68·8	68·0	67·3	68·5	68·4	68·8	71·0	73·4	79·2	82·7	82·4	83·0	84·2
18	73·7	72·7	71·5	71·7	70·9	69·4	68·5	69·3	72·4	74·5	76·7	80·4	83·1	83·5	83·2
19	71·8	71·8	71·8	71·2	70·4	69·9	69·4	70·9	72·4	74·4	78·2	79·9	80·9	83·5	84·3
20	73·3	73·6	73·5	72·8	72·2	71·8	71·5	72·3	74·8	78·2	80·6	80·8	80·9	80·6	80·7
21	73·4	72·9	73·0	73·2	72 4	71·9	71·1	72·5	74·7	76·4	79·0	80·8	81·4	82·0	83·5
22	74·9	75·0	74·5	74·4	74·2	73·5	73·0	73·7	76·3	78·9	81·2	84·0	84·8	83·5	83·4
23	75·1	74·9	75·2	74·6	73·6	**73·3**	72·9	73·8	76·9	78·0	79·8	81·0	80·7	80·7	81·1
24	74·8	73·9	73·0	72·4	71·6	71·3	72·2	73·5	76·3	77·7	80·1	81·2	81·0	82·2	82·6
25	76·2	75·9	74·3	74·4	74·0	72·9	72·5	73·7	76·3	77·4	79·0	81·7	82·9	83·3	83·2
26	74·0	74·0	73·1	71·8	71·2	71·9	71·5	72·7	75·1	77·0	80·1	83 0	83·6	83·7	83·4
27	75·1	73·9	73·8	73·2	72·2	71·4	72·3	73·7	76·2	78·0	80·9	82·7	83·5	84·0	83·7
28	75·4	75·0	74 1	73·5	73·0	72.4	71·6	73·2	77·0	79·0	80·1	80·6	81·4	81·6	81·5
Mean . .	71·0	70.7	70·3	70 0	69·6	69·2	**69·0**	69·9	72·2	74·5	77·3	79·6	81·1	**81·4**	81·3
Variation .	−3·4	−3·7	−4·1	−4·4	−4 8	−5·2	**−5·4**	−4·5	−2·2	+0·1	+2·9	+5·2	+6·7	**+7·0**	+6·9

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

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Hours.									Mean.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
										H. M.		H. M.		
76·2	74·9	72·8	71·8	70·9	70·0	69·2	67·9	67·6	70·4	15 20	77·0	7 20	66·0	1
76·5	75·8	74·0	72·4	71·8	71·2	70·5	69·7	68·7	70·1	15 32	76·8	7 15	62·6	2
80·2	79·0	77·0	75·1	74·2	72·3	71·8	70·8	70·6	72·1	15 45	80·5	5 45	65·3	3
77·4	76·4	74·9	73·5	72·7	71·9	71·2	69·7	68·8	71·9	14 22	77·6	7 10	66.9	4
77·5	77·6	74·9	73·8	73·1	72·2	71·0	70·2	69·9	71·9	13 53	79·5	7 20	66·0	5
76·8	76·2	74·9	73·5	72·8	72·4	71·5	70·6	69·6	71·5	14 8	77·6	7 15	65·4	6
79·5	78·1	76·5	74·8	74·0	73·5	73·0	72·0	71·5	72·8	14 36	80·4	5 52	65·4	7
83·4	82·0	79·5	77·7	76·0	75·9	75·3	74·5	74·3	75·9	14 2	84·2	3 5	69·9	8
83·8	82·5	80·8	79·5	78·8	78·5	78·2	77·6	77·2	77·8	13 20	**86·7**	7 30	72·0	9
84·2	82·8	81·0	79·5	78·3	77·4	76·8	76·3	75·9	**78·4**	13 35	84·6	6 45	73·0	10
83·0	81·8	80·2	79·1	78·3	77·6	76·8	75·6	75·0	77·6	13 10	84·5	7 0	73·0	11
79·7	78·5	77·6	77·0	76·5	76·2	75·3	75·4	75·3	76·2	12 10	81·2	7 10	72·0	12
77·6	76·8	75·5	74·9	74·2	74·0	73·0	72·5	72·0	75.0	12 40	79·8	23 50	71·8	13
76·2	75·0	73·4	72·5	72·3	71·8	71·2	70·3	69·8	73·0	13 24	76·6	23 12	69·5	14
74·3	73·3	71·9	71·0	70·4	70·0	69·1	68·9	67·9	70·3	14 36	75·2	7 6	65·9	15
76·3	75·3	73·6	72·0	71·8	70·4	69·4	69·1	67·5	**69.3**	14 42	76·5	6 30	**61.8**	16
78·0	76·9	74·9	73·2	72·5	71·9	71·0	69·9	68·9	70·8	13 15	79·0	3 30	64·1	17
77·3	76·8	75·0	73·5	72·3	72·0	71·5	70·8	69·9	71·0	14 15	78·0	6 10	64·1	18
78·1	78·2	76·5	75·0	74·4	73·5	72·6	70·7	70·7	71·9	14 30	79·5	6 50	65·1	19
78·2	77·4	75·8	74·5	73·7	72·5	71·5	70·5	69·9	72·8	13 20	80·0	7 10	66·5	20
78·2	76·8	75·1	74·2	73·6	73·4	72·3	71·0	69·8	72·3	14 52	79·0	6 20	66·3	21
79·6	78·5	77·2	75·3	73·8	72·2	71·4	70·5	70·4	73·3	13 12	81·6	2 20	67·3	22
81·8	80·0	78·5	76·8	76·2	75·5	73·9	73·0	72·6	74·5	13 15	83·8	6 58	67·9	23
80·3	79·3	77·8	76·5	76·3	75·3	74·5	74·6	74·5	75.3	12 16	84·8	6 30	69·0	24
82·0	81·2	79·5	77·5	77·0	76·3	75·3	74·8	74·6	76·1	13 30	82·6	7 10	70·4	25
81·9	81·0	78·6	76·6	76·5	76·5	76·3	75·5	75·0	76·5	12 56	82·9	2 20	71·0	26
79·3	78·0	76·2	75·5	75·5	74·8	74·0	73·1	72·8	75·6	11 50	80 7	6 50	70·5	27
80·4	78·5	77·7	76·5	75·8	75·7	75·0	74·5	74·5	75·4	14 13	82·5	6 15	69·6	28
76·2	75·0	74·0	73·4	73·4	73·5	73·2	72·5	72·3	74·1	12 35	78·6	6 52	69·9	29
75·3	74·0	72·5	71·6	71·4	71·4	71·2	70·8	71·0	72·3	13 8	76·2	5 50	69·0	30
76·2	75·8	73·5	72·5	71·7	71·0	70·5	69·7	69·0	72·1	13 0	77·2	23 56	68·6	31
78·9	77·9	76·2	74·9	74·2	73·6	72·8	72·0	71·5	73·5					Mean.
+5·4	+4·4	+2·7	+1·4	+0·7	+0·1	−0·7	−1·5	−2·0						Variation.

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73·7	72·0	70·2	68·9	68·5	68·1	68·0	66 8	65·2	69·8	13 5	74·8	23 58	64·9	1
73·5	72·0	70·5	68·8	68·0	67·3	67·0	66·2	65·0	**67·4**	13 52	74·5	6 50	**60·6**	2
75·3	74·2	72·6	71·1	70·5	70·2	69·7	69·6	68·5	68·5	14 55	76·0	3 0	62·4	3
76·0	74·7	72·8	71·5	70·8	70·2	69·8	69·5	69·3	70·4	13 30	76·7	7 0	64·8	4
75·5	74·5	73·2	71·9	71·4	70·8	69·7	68·3	66·7	70·6	12 12	77·0	6 35	65·5	5
81·8	78·7	76·2	74·0	73·4	72·4	71·3	69·4	67·8	71·9	14 35	84·5	6 20	65·0	6
81·3	79·3	77·6	75·7	75·1	74·0	73·0	72·3	71·0	74·6	13 50	86·5	1 20	66·9	7
80·8	80·2	78·8	77·2	76·6	76·2	75·5	74·9	74·7	75·3	14 55	81·4	4 50	69·4	8
74·0	74·3	72·2	72·0	71·4	70·8	70·4	70·2	70·0	73·6	12 2	77·5	23 0	69·6	9
76·8	75·2	73·2	72·1	71·6	71·2	70·4	68·6	67·5	71·8	13 0	77·8	7 0	67·4	10
77·8	76·7	75·5	73·8	73·3	72·5	71·4	70·5	69·5	71·7	12 30	79·7	5 20	64·0	11
79·6	78·2	76·9	75·8	74·9	74·0	73·0	72·5	70·4	73·6	12 40	85·5	4 5	65·0	12
85·1	81·5	78·4	76·3	75·7	74·8	73·9	72·7	71·6	76·1	13 40	89·3	6 40	69·4	13
83·3	81·7	79·2	76·3	75·6	75·0	74·5	73·3	71·6	76·4	13 58	**90·1**	6 40	69·5	14
84·1	82·4	79·8	77·3	76·1	75·5	75·0	73·0	72·8	75·8	14 27	88·0	6 40	68·2	15
82·7	81·2	79·1	76·7	75·2	73·7	72·8	71·9	71·5	75·0	12 25	84·5	6 35	68·6	16
84·5	83·0	80·3	78·0	76·1	74·9	74·8	74·9	74·2	75·3	15 25	84·6	4 30	67·0	17
83·3	81·6	79·7	78·7	76·4	75·0	73·8	73·2	73·5	75·7	14 10	83·6	6 84	68·3	18
82·9	81·0	78·8	77·4	77·0	76·0	75·6	75·1	73·7	75·8	14 24	84·6	6 15	69·3	19
80·5	79·1	77·6	76·6	76·3	75·7	75·1	74·2	73·2	76·1	12 5	81·5	5 15	71·1	20
82·6	81·8	80·6	79·2	78·5	77·8	76·5	75·9	76·3	77·0	14 25	84·0	6 40	70·9	21
83·4	83·2	81·9	79·9	79·0	77·9	77·3	76·2	75·5	**78·3**	12 3	86·5	6 55	72·5	22
80·7	80·1	79·4	77·9	77·0	76·4	74·8	75·2	75·1	77·0	14 25	81·7	6 50	72·4	23
82·5	81·6	80·0	78·4	78·1	77·3	76·3	75·4	76·4	77·1	14 42	83·5	5 10	71·2	24
82·8	81·6	80·1	78 5	77·8	76·9	76·0	75·2	75·0	77·6	13 56	83·5	6 3	71·6	25
82·8	81·8	79·5	78·3	77·4	76·8	76·3	75·0	74·7	77·0	11 42	84·5	4 20	71·0	26
84·0	83·1	81·7	79·7	78·6	77·7	77·2	76·1	75·4	77·8	13 50	84·5	5 55	71·2	27
80·7	80·3	79·3	77·5	76·6	76·0	75·6	74·9	74·4	76·9	12 31	82·0	6 40	71·4	28
80·4	79·1	77·3	75·7	74·9	74·1	73·4	72·5	71·8	74·4					Mean.
+6·0	+4·7	+2·9	+1 3	+0·5	−0·3	−1·0	−1·9	−2·6						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH. (IN DEGREES FAHRENHEIT.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	73·8	73·5	73·4	72·8	72·0	**71·5**	71·6	72·2	74·8	76·7	78·7	79·4	80·1	80·6	80·5
2	74·5	74·5	74·0	73·2	72·7	72·5	72·0	72·9	75·1	77·3	79·7	79·9	80·6	81·0	80·5
3	76·5	76·4	76·0	75·9	75·8	75·6	74·5	74·6	77·2	78·8	81·3	82·5	83·1	83·2	84·1
4	75·5	75·0	74·4	74·1	73·5	72·8	72·6	74·0	78·2	80·2	83·2	84·3	83·5	82·8	82·9
5	76·1	75·5	75·0	73·9	73·6	73·7	74·5	**76·3**	79·0	82·1	85·0	86·9	88·1	**89·8**	88·6
6	78·2	78·4	77·2	77·1	77·5	77·5	76·7	76·5	77·7	79·3	82·0	83·2	83·8	84·1	85·5
7	77·1	76·4	75·5	74·8	74·6	74·9	74·5	76·1	78·1	79·0	82·1	83·1	84·2	83·9	84·2
8	74·0	73·8	73·5	73·0	73·0	73·0	73·1	75·0	78·8	79·6	80·1	80·3	80·9	80·7	80·5
9	74·8	74·2	73·5	73·0	73·4	72·8	72·2	73·5	74·8	76·6	78·5	80·2	80·8	81·5	82·3
10	75·8	75·5	75·1	74·4	73·0	72·0	71·6	73·0	76·3	78·3	81·2	82·5	83·5	83·6	83·8
11	76·1	76·4	75·9	75·7	74·8	73·5	74·0	75·2	77·9	79·5	82·0	84·5	84·5	84·2	84·1
12	76·2	75·3	75·0	74·9	74·5	74·1	74·0	75·5	77·9	79·2	80·4	81·7	82·6	82·7	82·2
13	76·0	75·8	75·0	74·0	73·5	73·5	73·2	74·5	77·0	79·1	80·2	81·0	81·0	81·4	81·1
14	73·9	74·0	73·9	73·1	72·2	71·7	71·9	73·8	76·1	77·6	78·8	79·5	80·8	81·3	81·5
15	75·5	75·3	74·7	73·7	72·9	72·4	71·8	73·0	76·9	79·7	81·0	81·2	82·1	82·6	83·1
16	74·2	73·8	73·9	74·1	73·9	72·5	72·0	73·1	76·3	78·7	81·0	82·1	83·0	83·5	82·7
17	73·8	74·1	74·1	73·9	73·5	73·0	72·6	74·1	76·2	77·9	81·1	82·7	83·0	82·6	83·0
18	75·0	73·8	74·0	74·2	73·5	73·0	72·2	74·0	77·5	79·4	81·8	82·0	83·0	83·5	83·5
19	76·8	76·7	76·9	77·0	76·6	76·0	74·8	76·5	79·4	81·9	83·5	84·4	85·6	86·0	85·5
20	77·5	77·1	76·5	76·3	75·1	74·7	74·5	76·5	78·4	79·9	81·2	81·9	82·8	83·5	83·4
21	76·2	77·0	76·5	75·7	75·2	75·1	75·7	76·8	78·5	79·8	81·2	82·2	83·0	83·5	83·6
22	78·7	78·8	78·9	79·0	78·5	78·8	79·0	79·4	79·9	82·3	83·6	84·8	85·6	85·3	85·3
23	79·6	79·3	78·3	77·6	78·3	77·9	77·8	79·3	81·8	82·8	85·0	85·1	85·6	86·0	85·9
24	80·2	79·5	79·6	79·4	78·6	78·5	78·5	80·2	81·2	83·4	85·5	86·0	85·7	85·4	86·0
25	80·5	80·0	79·8	79·5	78·5	77·9	78·5	79·8	81·0	82·8	84·0	84·8	85·2	85·3	85·5
26	78·9	78·2	77·8	77·2	76·5	76·5	76·4	78·0	81·0	82·8	83·6	84·6	85·5	86·3	86·2
27	79·9	78·5	78·2	78·0	77·4	77·5	73·2	79·9	81·8	83·2	83·2	84·1	84·5	85·5	85·2
28	78·6	77·8	77·3	76·5	76·2	76·2	76·3	78·2	81·0	82·3	84·3	85·1	86·3	86·6	87·1
29	80·4	79·5	78·1	77·7	77·2	76·5	76·3	79·2	82·2	84·5	86·6	87·8	88·5	89·3	88·7
30	80·1	80·0	79·8	79·4	77·9	77·2	77·3	78·9	82·5	85·2	86·5	86·4	86·5	86·5	86·5
31	79·0	78·5	78·0	77·5	77·2	76·5	76·8	78·5	80·9	82·9	85·2	85·6	85·5	86·1	85·5
Mean .	76·9	76·5	76·1	75·7	75·2	74.8	**74·7**	76·1	78·6	80·4	82·3	83·2	83·8	**84·1**	84·1
Variation .	—2·4	—2·8	—3·2	—3·6	—4·1	—4·5	**—4·6**	—3·2	—0·7	+1·1	+3·0	+3·9	+4·5	**+4·8**	+4·8

APRIL.

1	78·5	78·2	78·0	77·4	77·0	76·3	**76·1**	78·8	80·5	81·6	83·5	84·2	85·1	85·0	84·5
2	78·3	77·9	77·2	77·2	77·0	76·7	77·3	77·9	79·9	81·6	83·0	83·6	84·8	85·0	85·3
3	78·2	77·5	77·2	76·9	77·1	76·5	77·1	78·5	80·0	81·6	83·5	84·2	85·3	85·6	85·8
4	79·3	78·8	78·9	78·3	78·0	77·6	78·5	79·0	80·5	83·0	85·2	86·7	87.2	87·6	87·6
5	80·0	79·5	79·2	78·5	78·0	78·2	78·3	80·0	82·3	84·6	85·8	86·5	86·5	86·6	87·0
6	79·0	78·5	78·1	77·9	77·2	77·0	78·1	79·2	81·2	83·0	83·8	84·6	85·3	85·5	85·4
7	79·7	78·5	78·7	78·8	78·5	78·5	78·7	80·1	81·6	82·8	83·8	84·6	85·4	85·9	86·0
8	79·4	79·3	79·3	78·9	78·5	77·9	78·0	80·0	81·3	82·2	83·9	84·8	85·2	85·5	85·4
9	79·4	79·4	79·0	78·8	78·9	78·4	78·8	80·0	81·2	82·5	84·2	84·8	85·1	85·3	85·5
10	78·1	78·2	77·8	77·8	77·5	77·0	77·2	78·3	80·1	81·5	83·5	83·9	84·8	84·5	84·6
11	78·4	78·2	78·2	77·9	77·4	76·6	77·3	79·1	81·4	82·9	84·0	85·0	85·6	85·0	85·5
12	79·0	77·7	77·5	77·3	76·8	76·6	76.1	78·6	82·4	84·9	87.2	87·8	88·4	90·1	90·5
13	81·4	80·9	80·4	79·5	78·2	78·1	78·8	80·3	82·8	84·9	86·2	86·8	87·5	87·2	86·8
14	80·4	80·2	79·5	79·3	79·3	79·2	79·2	80·5	82·9	84·9	85·7	87·4	88.2	87·4	87·2
15	81·1	80·9	80·5	80.2	80·0	79·9	79·5	80·1	83·1	84·2	85·2	86.6	86·7	86·7	86·5
16	80·6	80·5	79·7	79·3	78.0	77·5	79·0	79·5	81·2	83·2	85·3	86·0	86·8	87·0	87·0
17	81·0	81·0	80·8	80·6	80·2	80·1	80·8	82·5	83·8	84·5	85·5	86·5	87·2	88·4	88·5
18	82·0	82·0	81·8	81·6	81·2	81·3	81·8	82·5	83·3	84·5	86·2	86·6	87·2	88 5	88·7
19	82·3	82·2	81·9	81·6	81·6	81·4	81·8	82·7	84·8	86·0	88·0	88·6	88·4	88·7	88·6
20	83·0	82·7	81·7	81·2	80·7	80·5	81·0	84·2	87·3	88·0	90·5	91·3	90·8	91·7	92·0
21	84·7	83.9	83·3	82·7	82·5	82·5	82·4	83·4	85.2	87·2	87·7	88·2	88·5	90·0	90·0
22	84·0	83·0	81·3	80·5	80.4	80·3	80·8	83·2	87·0	90·0	**92·6**	92·4	92·3	92·2	91·5
23	83·5	82·5	81·4	80·9	80·5	80·2	81·3	83·3	86·2	87·5	88·7	89.0	89·7	90·5	90·5
24	81.6	80.9	80·5	80·0	79·2	78·5	79·4	81·1	82·5	83·6	84·6	85·4	86·0	86·9	87·6
25	80.9	80·5	80·4	79·4	79·5	79·5	80·0	81·8	83·5	84·9	85·1	85·9	86·2	86·5	87·5
26	81·7	81·4	80·9	80·5	80·6	80·7	81·2	82·0	83·2	84·9	85·7	86·5	87·1	87·5	87·6
27	80·9	80·9	80·5	80·5	80·3	79·6	80·2	81·8	82·8	84·5	85·4	86·2	87·1	87·3	87·3
28	80·6	80·5	79·5	79·0	78·6	78·3	79·0	81·0	84·6	84·7	86·2	86·7	87·4	87·4	87·6
29	80·9	80·6	80·1	79·4	78·5	78·2	78·6	81·3	84·3	86·0	87·5	88·0	88·8	89·0	89.0
30	82·5	82·4	81·8	80·8	80·5	80·3	81·6	83·8	86·0	86·5	87·7	88·0	88·5	89·3	89·1
Mean .	80·7	80·3	79·8	79·4	79·1	**78.8**	79·3	80·8	82·9	84·4	85.8	86·6	87·1	**87·5**	87·5
Variation .	—2·3	—2·7	—3·2	—3·6	—3·9	**—4·2**	—3·7	—2·2	—0·1	+1·4	+2·8	+3·6	+4·1	**+4·5**	+4·5

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH. (IN DEGREES FAHRENHEIT.)

Hours.									Mean.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
										H. M.		H. M.		
80·4	79·7	78·0	77·1	76·7	76·3	76·1	75·7	75·6	**76·1**	12 52	81·7	5 50	**71·4**	1
80·8	80·6	79·8	79·1	78·6	78·1	77·4	76·6	77·0	77·0	12 32	81·7	6 50	71·7	2
84·7	83·9	82·2	80·1	79·5	79·3	78·5	77·9	76·9	79·1	15 40	85·0	6 48	74·3	3
83·4	82·6	81·5	80·3	80·1	79·5	78·7	77·6	77·0	78·7	11 25	84·6	6 50	72·5	4
87·7	88·0	85·0	82·3	81·4	81·0	80·5	79·4	79·0	80·9	13 55	**90·6**	5 57	73·5	5
86·1	84·7	83·2	81·5	80·5	79·5	79·3	78·5	78·0	80·3	15 8	86·3	6 40	76·3	6
84·0	83·1	82·0	80·0	79·0	77·9	77·2	75·9	74·8	78·9	15 10	84·7	3 56	74·3	7
80·1	79·1	77·6	76·3	75·9	75·3	75·9	75·4	75·0	76·7	12 30	81·1	6 30	72·5	8
82·0	81·0	80·0	78·3	77·8	77·1	75·8	75·5	75·9	76·9	15 10	82·7	5 58	71·9	9
83·0	82·7	81·3	79·6	79·3	78·4	77·2	76·0	75·6	78·0	12 15	84·5	6 20	71·4	10
83·2	82·2	81·2	79·6	79·0	78·5	77·5	76·5	76·7	78·9	12 12	84·8	5 10	73·3	11
81·9	80·8	79·5	78·2	78·0	77·4	77·0	76·6	76·4	78·0	13 10	82·8	6 30	73·5	12
80·7	79·7	78·0	76·5	75·8	75·6	75·5	74·9	74·3	77·0	13 45	81·7	6 30	73·2	13
81·4	80·4	79·0	77·0	76·5	76·1	75·9	75·4	75·3	76·5	14 10	81·9	6 10	71·4	14
83·0	81·7	80·0	78·7	77·2	75·6	75·2	75·0	75·2	77·4	15 20	83·6	6 20	71·5	15
82·5	81·8	80·9	79·2	77·9	77·2	76·3	75·6	75·0	77·5	13 0	83·8	6 50	71·8	16
82·5	81·7	80·0	78·6	77·8	77·3	76·8	76·0	75·0	77·6	14 25	83·5	6 30	72·4	17
83·4	82·0	80·4	79·0	78·7	78·4	77·6	77·5	77·0	78·1	13 15	83·7	6 30	72·0	18
84·6	83·2	81·7	80·1	79·4	78·7	78·2	78·0	77·8	80·0	13 45	86·4	6 56	74·5	19
83·5	82·2	81·0	79·5	78·0	77·3	76·5	76·0	75·8	78·7	15 5	84·0	6 20	74·3	20
83·2	86·0	81·0	80·1	79·5	79·2	78·5	78·7	78·6	79·2	15 17	83·9	5 30	75·0	21
85·0	83·6	82·4	81·3	80·6	79·6	79·5	79·8	79·8	81·2	12 30	86·0	4 55	78·2	22
85·6	84·9	84·3	83·5	83·0	82·0	81·0	80·5	80·4	81·9	13 50	86·5	5 45	77·4	23
86·3	85·6	84·2	83·1	82·2	82·0	81·9	80·9	80·8	82·3	15 55	86·6	4 30	78·3	24
85·5	84·9	83·2	81·6	81·3	80·9	80·8	79·8	79·2	81·7	15 0	85·8	5 55	77·8	25
86·0	85·0	83·5	82·0	81·5	81·0	80·8	80·4	80·3	81·3	15 20	86·4	6 30	76·2	26
84·9	84·2	82·9	80·9	80·5	79·7	79·5	79·2	79·0	81·1	13 7	85·6	4 35	77·2	27
86·6	86·2	84·9	83·2	82·4	81·6	81·5	81·1	80·8	81·6	14 40	87·5	6 4	76·0	28
87·4	86·8	85·4	83·3	82·5	81·5	81·1	81·0	80·5	**82·6**	13 2	89·5	6 30	75·6	29
86·7	86·6	84·9	82·9	81·8	81·3	80·5	79·9	79·6	82·3	16 3	87·3	6 5	77·0	30
85·1	84·1	82·9	81·5	80·9	80·2	79·9	78·9	78·5	81·1	13 20	86·5	5 30	76·4	31
83·9	83·1	81·7	80·1	79·5	78·8	78·3	77·7	77·4	79·3					Mean.
+4·6	+3·8	+2·4	+0·8	+0·2	—0·5	—1·0	—1·6	—1·9						Variation.

APRIL.

84·0	84·1	82·6	81·2	80·5	80·3	80·0	79·5	79·0	80·7	13 7	85·5	6 30	**75·5**	1
85·2	84·3	82·5	80·8	80·2	79·8	79·2	79·5	79·0	**80·5**	14 22	85·9	5 30	76·5	2
86·0	85·3	84·4	82·6	81·8	81·3	81·0	80·2	79·5	81·1	15 10	86·4	5 40	76·5	3
87·0	86·2	84·5	82·8	82·0	81·5	81·0	80·5	80·5	82·2	15 5	88·3	5 50	77·5	4
86·0	85·0	83·7	82·0	81·5	80·8	80·5	80·2	79·8	82·1	11 30	87·5	4 55	77·8	5
85·9	85·8	83·8	82·2	81·4	81·4	80·9	80·6	80·3	81·5	14 12	86·1	5 55	76·9	6
86·0	85·3	84·0	82·2	81·5	81·0	80·6	79·9	79·5	81·7	14 30	86·5	1 40	78·1	7
85·4	84·4	83·0	81·6	81·0	80·8	80·4	80·4	79·9	81·5	12 50	85·8	6 2	77·4	8
84·5	83·7	82·3	80·9	80·3	80·2	79·6	79·3	78·5	81·3	14 12	85·8	5 45	78·1	9
84·3	83·0	81·8	80·6	79·9	79·5	79·2	79·0	78·8	80·5	13 14	85·0	6 6	76·7	10
86·1	85·7	85·1	83·8	83·4	82·5	81·6	80·5	79·8	81·7	15 5	86·5	5 44	76·4	11
89·8	89·1	87·2	85·7	84·9	84·2	83·9	82·0	81·6	83·3	14 15	90·7	6 14	75·9	12
86·6	86·5	85·2	83·6	83·0	82·5	82·1	81·1	80·8	83·0	12 50	88·3	5 28	77·9	13
86·8	86·3	84·9	83·2	82·8	82·5	82·0	81·6	81·3	83·0	13 0	88·5	6 10	79·0	14
86·5	85·9	84·4	83·0	82·1	81·6	81·4	81·0	80·9	82·8	12 18	87·5	6 40	79·5	15
86·6	85·7	84·5	82·8	82·5	81·9	81·7	81·5	81·5	82·5	14 5	87·5	6 10	77·4	16
88·2	87·8	86·8	85·1	84·2	83·4	82·7	82·5	82·2	83·9	13 39	89·0	5 25	79·8	17
88·2	87·0	85·9	84·4	84·0	83·5	82·6	82·7	82·6	84·2	14 48	89·4	4 50	81·0	18
87·7	87·0	85·9	84·1	83·8	83·8	84·1	83·9	83·3	84·7	13 20	89·5	5 35	81·3	19
91·0	89·8	89·5	88·7	87·5	86·9	86·4	85·5	84·5	**86·5**	14 23	92·6	6 10	80·4	20
89·7	89·4	88·7	87·5	86·7	85·9	85·5	84·9	84·5	86·0	13 10	90·6	6 10	82·2	21
90·8	90·0	89·2	88·2	87·8	85·7	84·5	84·5	84·1	86·5	12 30	**93·0**	6 10	79·9	22
90·0	88·2	86·3	84·5	84·1	83·6	83·2	82·8	82·2	85·0	13 47	91·5	5 40	80·1	23
87·3	86·6	85·1	83·3	82·5	82·0	81·8	81·5	81·2	82·9	14 08	87·8	5 35	78·3	24
87·5	86·6	85·2	83·8	83·1	82·5	82·5	82·1	81·9	83·2	14 38	87·8	3 32	79·2	25
87·5	87·0	86·0	84·1	83·4	82·5	82·2	81·6	81·3	83·6	14 20	88·0	4 55	80·2	26
87·5	86·6	85·0	83·4	82·3	82·2	81·9	81·6	81·4	83·2	13 56	87·7	5 45	79·2	27
87·4	86·8	85·3	83·5	82·6	82·4	81·9	81·4	81·2	83·1	14 58	88·2	5 30	78·0	28
88·9	87·6	86·8	85·6	85·0	84·4	83·6	83·1	82·9	84·1	14 15	89·5	6 10	78·0	29
88·5	87·4	85·9	84·7	84·0	83·4	83·0	83·0	82·6	84·6	13 35	89·6	5 45	80·5	30
87·2	86·5	85·2	83·7	83·0	82·5	82·0	81·6	81·2	83·0					Mean.
+4·2	+3·5	+2·2	+0·7	0·0	—0·5	—1·0	—1·4	—1·8						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY. (IN DEGREES FAHRENHEIT.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	82·5	82·4	82·1	81·8	81·5	82·0	82·2	83·6	86·0	86·8	88·1	88·4	88·3	88·1	88·0
2	82·6	82·5	82·4	82·3	82·3	82·4	82·8	84·0	86·1	87·1	88·3	89·0	89·3	89·0	89·1
3	82·4	82·1	81·8	81·6	81·3	**81·2**	81·6	83·2	85·1	86·5	87·5	87·8	88·6	89·1	89·3
4	83·4	83·4	83·4	83·1	82·7	82·6	83·0	84·0	85·7	86·7	87·5	88·3	89·3	89·4	89·0
5	84·4	83·4	82·6	82·8	82·7	82·6	83·7	85·7	87·3	88·3	88·6	89·2	89·8	89·5	89·4
6	82 5	82·2	82·5	82·4	82·4	82·2	82·9	84·0	85·5	86·5	87·2	88·3	88·8	89·0	89·0
7	82·4	81·9	81·5	82·0	81·7	81·9	82·8	84·0	85·5	85·7	86·3	87·0	88·1	88·6	88·2
8	82 5	82·1	82·2	82·1	82·0	82·0	82·4	83 9	85·1	85·9	87·0	87·9	88·5	89·1	89·0
9	83·9	82·5	83·3	83·5	83·2	82·9	83·3	84·3	85·4	86·8	87 2	88·0	89·2	89·4	89·2
10	83·2	82·9	82·4	82·2	81·9	81·5	82·2	83·2	84·5	86·0	87·1	88·0	88·8	89·0	88·3
11	84·1	83·9	83·8	83·7	83·5	83·5	83·6	84·8	86·3	87·4	88·2	89·0	89·1	89·0	88·9
12	83·8	83·8	83·5	83·6	83·4	83·1	83·0	84·4	85·9	87·2	88·2	88·8	89·2	89·5	89·3
13	83·6	83·5	82·9	82·8	82·5	82·3	83·6	84·0	85·0	86·2	87·5	88·2	89 0	89·1	39·1
14	83·2	82·8	82·7	82·6	82·5	82·5	82·9	84·2	85·8	86·9	88·0	88·6	89·1	89·5	89·3
15	83·3	83·2	82·9	82·8	82·7	82·6	82·8	84·4	85·8	87.2	88·3	89·3	89·5	89·7	89·5
16	83·4	83·1	82·8	82·5	82·7	82·7	83·1	84·4	86·1	87·0	87·4	88·5	89·2	89·5	89·1
17	83·4	83·1	82·6	82·7	82·5	82·4	83·0	84·0	85·8	86·5	87·4	88·0	89·0	89·3	89·5
18	83·5	83·4	83·0	82·8	82·6	82·5	83·4	84·0	85·5	86·5	87·5	88·5	89·5	89·5	89·2
19	83·5	83·3	83·2	82·9	82·6	82·5	82·5	83·5	85·3	86·9	88·2	88·9	89·9	89·8	89·8
20	83·4	83·1	82·8	82·8	82·8	82·9	83·7	84·3	85·9	87·0	88·2	88·1	89·9	90·0	90·0
21	83·8	83·6	83·3	83·2	83·5	83·0	83·5	84·3	86·2	87·5	88·6	88·8	89·6	90·0	90·4
22	83·5	83·2	83·4	83·2	82·8	82·6	83·0	84·5	86·3	87·5	88·5	89·5	90·0	89·6	88·9
23	84·4	84·5	83·9	84·1	83·8	83·7	84·2	85·2	87·2	88·5	89·1	89·5	90·2	90·4	90·0
24	84·9	84·6	84·5	84·3	84·0	84·1	84·7	85·5	87·4	88·4	89·1	89·9	90·2	90·0	89·9
25	83·9	83·8	83·6	83·5	83·5	83·4	84·0	85·1	86·2	86·8	88·2	89·0	89·8	90·3	90·2
26	84·5	84·3	84·3	83·9	83·9	83·8	84·5	85·5	86·9	88·2	89·6	90·3	90·4	90·5	90·1
27	84·2	83·9	83·5	83·6	83·5	83·4	84·1	85·2	87·2	88·4	89·2	90·0	90·5	90·5	90·5
28	84·5	84·4	83·9	83·5	83·5	83·6	84·0	85·2	87·0	88·3	89·0	89·6	90·5	91·0	90·7
29	84·5	84·4	84·3	84·3	84·4	84·3	84·5	85·6	87·2	88·0	89·3	90·0	90·9	90·8	90·7
30	84·9	84·9	84·7	84·6	84·3	84·2	84·7	85·8	86·8	88·2	89·0	89·3	90.4	91·0	90·8
31	84·6	84·5	84·2	84·1	84·0	84·2	84·8	86·2	87·6	88·4	89·1	90·1	90·7	91·0	**91·2**
Mean .	83·6	83·4	83·2	83·1	**82·9**	82·9	83·4	84·5	86·1	87·2	88·1	88·8	89·5	**89·7**	89·5
Variation .	—2·2	—2·4	—2·6	—2·7	**—2·9**	—2·9	—2·4	—1·3	+0·3	+1·4	+2·3	+3·0	+3·7	**+3·9**	+3·7

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1	84·9	84·5	84·5	84·4	84·3	84·1	84·7	86·1	87·4	88·6	89·6	90·4	90·8	90·6	91·0
2	85·1	84·9	84·6	84·5	84·4	84·4	84·8	86·3	87·7	88·9	89·8	90·5	91·3	91·4	91·5
3	85·5	85·3	85·3	85·1	84·8	84·9	85·4	86·8	87·8	89·1	89·8	90·6	91·5	91·5	**91·7**
4	85·5	85·4	85·3	85·0	84·9	84·9	85·2	86·2	88·0	89·0	89·1	90·3	91·0	91·3	91·0
5	85·3	84·9	84·9	84·6	84·5	84·4	84·9	85·0	87·0	88·1	89·5	90·2	90·3	91·1	91·0
6	85·3	85·0	85·0	84·8	84·5	84·4	84·9	85·6	87·0	88·2	88·5	90·2	90·6	90·9	91.2
7	85·4	85·1	84·9	84·9	84·6	84·6	84·9	86·2	88·1	88·9	89·5	90·2	91·0	91·1	91·4
8	85·5	85·0	84·0	83·0	82·7	82·7	84·0	86·5	87·2	87·3	88·5	89·7	90·4	91·2	91·3
9	83·1	82·7	82·4	82·4	79·9	79·0	89·4	82·8	84·8	85·7	87·2	89·0	90·5	91·1	90·1
10	81·1	81·1	81·5	81·2	81·2	81·0	81·5	82·5	82·7	83·0	84·0	81·9	81·4	82·9	84·3
11	82·0	80·7	80·9	80·9	81·0	81·2	82·0	83.5	85·1	86·7	87·3	87·0	88·6	88·1	87·7
12	84·3	84·0	83·5	83·3	83·0	81·8	82·3	83·3	84·1	85·0	86·6	87·9	88·2	86·3	86·0
13	83·5	83·4	83·5	83·5	83·4	83·5	83·8	84·6	85·7	86·7	87·8	87·2	85·8	88·8	86·2
14	82·9	83·5	83·3	83·3	83·6	83·5	84·2	85·0	86·5	88·2	88·4	89·5	90·3	90·6	90·1
15	82·2	80·6	81·7	82·6	82·5	82·8	80·0	81·8	82·0	84·5	82·8	88·3	82·0	82·5	82·0
16	79·8	89·5	79·7	79·5	78·9	78·5	7·.2	78·4	79·7	81·2	82·0	82·2	81·9	82·1	83·0
17	80·8	80·5	80·3	80·5	80·4	80·1	80·9	81·6	83·4	85·2	86·6	86·8	86·7	86·0	86·3
18	82·7	82·1	81·7	81·6	81·5	81·5	81·7	82·6	84·8	85·9	87·0	87·6	87·5	87·4	87·1
19	83·3	83·2	82·7	82·4	82·2	81·9	82·0	82·4	83·1	84·9	85·4	86·1	86·6	87·1	85·1
20	80·2	80·4	80·6	80·5	80·1	80·1	80·3	80·8	81·8	83·5	85·2	86·0	86·9	86·0	86·3
21	80·3	80·5	80·9	80·0	79·9	79·6	80·0	80·2	80·9	80·0	79·1	80·9	81·2	79·8	81·0
22	78·5	78·7	78·6	78·1	77·9	77·8	78·6	78·0	78.6	79·2	78·5	78·8	79·0	78·1	78·1
23	79·5	77·3	78·2	78·6	77·2	78·3	79·6	78·8	79·1	78·2	81·1	80·8	80·4	80·2	79·8
24	80·0	80·0	80·3	80·1	80·4	80·9	79·6	79·5	81·2	81·8	82·1	81·4	82·2	80·4	79·1
25	78·2	78·8	70·2	79·4	79·4	78·4	78·1	78·5	78·2	77·8	77·9	78·4	79·8	80·9	81·6
26	77·5	77·6	77·8	77·9	79·8	78·3	76·9	78·1	78·9	78·4	79·2	79·8	79·6	78·2	78·2
27	78·2	78·8	79·3	79·3	79·2	79·1	78·6	78·5	78·1	78·9	80·3	77·7	77·5	78·0	78·3
28	80·1	81·2	79·8	79·7	80·4	80·5	81.0	81·3	81·3	81·1	79·0	79·8	79·5	78·6	78·9
29	81·4	81·7	80·8	81·4	81·5	81·4	79·4	81.2	82·1	82·9	83·2	83·8	85·1	83·8	81·2
30	78·5	79·2	79·4	79·6	79·4	79·6	79·8	79·5	79·4	79·9	81·1	81·8	82·3	82·1	81·0
Mean .	82·0	81·9	81·8	81·7	81·5	**81·4**	81·6	82·4	83·4	84·2	84·9	85·3	**85·8**	85·6	85·4
Variation .	—1·2	—1·3	—1·4	—1·5	—1·7	**—1·8**	—1·6	—0·8	+0·2	+1·0	+1·7	+2·1	**+2·6**	+2·4	+2·2

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY. (IN DEGREES FAHRENHEIT.)

Hours.									Mean.	Maximum.		Minimum.		Date.
15--16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
										H. M.		H. M.		
87·6	86·6	85·6	84·5	84·0	83·6	83·3	82·7	82·6	84·7	12 5	88·7	4 25	81·4	1
88·5	87·6	86·5	84·8	84·3	83·8	83·5	83·0	82·6	85·2	12 56	89·6	3 4	82·1	2
89·1	88·0	86·8	85·5	84·8	84·5	84·3	83·7	83·5	85·0	14 5	89·6	5 0	**81·0**	3
88·7	87·6	86·9	86·5	86·0	85·9	85·6	85·5	85·0	85·8	13 22	89·7	6 3	82·4	4
88·8	87·5	86·1	84·4	84·5	84·2	83·0	82·8	82·6	85·5	14 26	89·8	2 18	82·3	5
88·5	87·3	85·9	84·3	83·7	83·5	83·4	83·1	83·0	84·9	13 17	89·5	1 23	82·0	6
88·0	87·0	85·3	84·1	83·5	83·5	83·5	83·4	83·2	**84·5**	14 3	89·1	2 25	81·4	7
88·7	87·7	86·5	85·1	84·8	85·0	84·9	84·5	84·3	85·1	13 0	89·5	4 50	81·9	8
87·9	86·5	85·2	84·7	83·9	83·5	83·5	83·5	83·5	85·2	14 12	89·9	5 45	82·8	9
88·0	87·3	86·5	85·5	85·2	84·9	84·6	84·3	84·2	85·1	12 35	89·4	5 10	81·4	10
88·9	88·1	86·7	85·2	84·8	84·5	84·5	84·3	84·0	85·8	12 24	89·8	4 44	83·4	11
89·0	88·3	86·9	85·7	85·1	84·3	83·8	83·6	83·5	85·7	13 40	89·7	5 38	83·0	12
88·8	88·0	86·5	84·9	84·4	84·0	83·9	83·5	83·5	85·3	13 0	90·0	5 18	82·1	13
89·1	87·5	86·4	84·8	84·3	84·0	83·8	83·6	83·5	85·3	13 0	90·0	3 35	82·4	14
88·9	88·4	86·8	85·3	84·8	84·4	84·4	83·8	83·5	85·6	14 4	89·9	5 18	82·4	15
89·3	88·4	87·4	85·8	84·8	84·4	84·0	83·8	83·7	85·5	12 45	89·6	4 40	82·3	16
89·0	88·8	87·5	85·8	84·8	84·8	84·6	84·8	83·6	85·5	14 40	89·8	5 4	82·2	17
89·0	88·2	86·9	85·1	84·6	84·5	84·2	83·9	83·8	85·5	13 52	89·8	5 50	82·4	18
89·0	88·1	86·9	85·0	84·4	84·0	83·8	83·3	83·5	85·5	13 57	90·4	5 5	82·4	19
89·8	88·6	87·5	86·1	85·5	85·0	84·7	84·4	84·2	85·9	13 5	90·8	3 30	82·5	20
89·8	89·0	87·6	85·7	84·9	84·6	84·4	84·3	84·2	86·0	14 17	90·7	5 45	82·5	21
88·2	88·5	87·8	86·5	86·2	85·6	85·2	85·0	84·7	86·0	12 47	90·7	5 50	82·5	22
89·9	89·4	88·5	87·4	86·8	86·5	86·2	85·5	85·4	86·8	13 4	90·9	5 25	83·4	23
89·6	88·5	87·2	85·9	85·1	84·8	84·5	84·4	84·3	86·5	12 47	91·5	4 30	83·8	24
89·9	89·1	87·9	86·2	85·9	85·5	85·3	85·1	84·9	86·3	13 32	90·5	5 50	83·2	25
89·8	89·2	87·5	86·1	85·0	84·9	84·5	84·4	84·3	86·5	13 45	90·8	5 0	83·5	26
90·0	88·9	87·7	86·3	85·5	85·4	85·2	84·9	84·6	86·5	13 55	91·4	5 35	83·4	27
90·1	89·0	87·7	86·3	85·9	85·6	85·5	85·1	84·9	86·6	13 30	91·6	5 35	83·4	28
90·6	90·1	88·6	87·0	86·4	86·0	85·9	85·3	85·1	87·0	13 12	91·5	3 58	84·1	29
90·1	89·1	87·8	86·5	86·0	85·6	85·4	85·1	84·8	86·8	13 17	91·4	5 37	84·1	30
90·9	89·9	88·3	87·3	86·6	85·9	85·6	85·3	85·3	**87·1**	13 50	**91·7**	4 50	83·8	31
89·1	88·3	87·0	85·6	85·0	84·7	84·5	84·2	84·0	85·8					Mean.
+3·3	+2·5	+1·2	−0·2	−0·8	−1·1	−1·3	−1·6	−1·8						Variation.

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91·1	90·4	88·9	87·3	86·9	86·2	86·2	85·6	85·4	87·2	14 5	91·7	5 30	84·0	1
91·0	89·8	88·7	87·5	86·7	86·4	85·8	85·7	85·6	87·4	14 36	**92·4**	5 35	84·3	2
91·8	90·7	89·4	87·8	86·8	86·5	86·4	86·1	86·0	**87·8**	13 0	92·2	5 20	84·6	3
90·7	89·9	88·7	87·0	86·5	86·3	86·0	85·5	85·3	87·4	13 45	91·8	4 43	84·7	4
90·9	90·1	88·9	87·2	86·5	86·2	85·7	85·5	85·5	87·2	13 2	91·4	5 30	84·2	5
91·0	90·2	89·0	87·4	86·8	86·3	85·9	85·6	85·5	87·2	14 40	91·7	5 32	84·2	6
91·5	90·1	89·0	87·6	87·1	86·8	86·5	86·2	86·0	87·6	15 22	91·8	5 20	84·2	7
88·5	85·9	85·8	84·3	83·4	82·8	83·1	83·8	83·5	85·8	14 28	92·0	4 30	82·6	8
87·8	86·9	86·7	86·5	86·2	85·1	82·5	80·8	80·9	84·8	14 20	91·8	4 58	78·5	9
84·9	84·7	84·2	83·2	83·4	83·3	82·5	82·8	82·5	82·6	16 12	85·2	5 35	80·9	10
87·9	87·8	87·2	86·1	85·5	85·3	85·2	85·0	84·9	84·9	12 15	89·0	1 15	80·4	11
86·7	86·2	85·0	83·6	82·7	82·5	82·6	83·1	83·3	84·4	12 35	88·6	5 10	80·5	12
86·0	86·5	85·9	85·4	85·1	84·9	83·8	83·5	83·4	85·2	12 30	89·5	23 20	83·2	13
89·6	88·2	87·3	86·2	84·9	84·4	84·5	83·6	82·8	86·0	13 30	90·9	22 50	82·4	14
79·7	79·5	79·2	79·1	78·9	79·2	79·4	79·6	79·5	81·1	10 12	85·3	19 35	78·5	15
83·5	83·0	82·6	82·1	81·8	82·0	81·9	81·7	81·6	81·1	14 55	83·8	6 30	78·0	16
86·4	86·0	84·6	84·4	84·0	83·8	83·2	83·1	83·0	83·5	10 50	87·0	5 50	79·8	17
86·9	86·1	85·9	85·0	84·8	84·6	84·5	84·4	84·2	84·5	11 40	88·0	4 24	81·4	18
84·9	84·6	84·5	84·4	84·1	84·0	83·9	82·4	81·0	83·8	13 15	87·5	24 0	80·6	19
84·8	85·2	84·3	83·5	83·5	82·5	80·9	80·8	81·0	82·7	12 32	87·0	4 40	80·0	20
81·3	79·9	80·3	80·0	80·1	79·8	79·5	77·6	78·2	80·0	12 0	82·4	22 56	77·3	21
78·3	78·5	80·2	80·7	80·6	81·0	81·1	79·0	80·5	79·0	21 48	81·6	4 52	77·3	22
79·1	79·9	80·3	80·8	80·9	79·2	77·8	78·1	80·2	79·3	11 8	81·6	22 10	76·6	23
78·5	78·0	78·0	78·4	78·4	78·2	77·6	77·8	77·8	79·6	12 49	83·0	21 32	77·4	24
80·9	80·2	79·5	79·4	78·9	78·6	78·5	78·8	78·6	79·1	14 50	81·4	10 5	77·4	25
77·9	77·8	77·1	77·3	77·1	77·6	78·2	77·8	77·7	**78·0**	11 10	80·2	6 20	76·5	26
78·4	76·9	**76·5**	77·5	78·5	78·1	79·2	79·8	79·9	78·5	11 3	80·6	17 31	**75·7**	27
79·5	81·3	79·4	77·9	77·8	79·2	80·4	81·3	81·5	80·0	7 42	81·9	17 35	76·8	28
78·5	79·0	80·0	80·9	80·0	79·4	77·7	77·6	77·5	80·9	12 25	85·6	23 10	77·1	29
79·5	79·1	79·2	78·4	78·8	79·3	79·9	80·9	81·3	80·0	12 30	82·5	18 51	77·6	30
84·9	84·4	83·9	83·2	82·9	82·7	82·3	82·1	82·1	83·2					Mean.
+1·7	+1·2	+0·7	0·0	−0·3	−0·5	−0·9	−1·1	−1·1						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY. (IN DEGREES FAHRENHEIT.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	80·2	79·6	80·6	80·5	77·4	78·6	77·1	77·6	77·5	**76·9**	80·8	82·5	83·7	83·8	84·1
2	81·5	81·2	81·3	81·1	81·1	81·2	81·2	81·7	82·1	82·6	83·0	83·2	81·3	81·4	81·9
3	80·3	79·6	79·9	80·3	80·1	80·6	80·9	81·2	81·4	81·8	82·1	81·4	81·6	81·5	80·8
4	79·4	78·3	78·9	78·7	78·7	79·8	80·5	81·0	80·6	81·0	81·6	81·8	82·3	82·2	81·8
5	80·2	80·2	79·8	79·9	80·1	80·1	80·5	80·7	81·6	80·0	81·9	82·3	83·4	83·5	83·8
6	80·3	80·0	79·9	80·2	80·4	80·3	80·7	81·2	81·6	82·1	83·7	84·3	79·1	78·2	80·7
7	80·6	79·5	80·3	80·5	80·4	80·2	80·6	81·2	81·4	81·8	82·6	81·7	82·3	82·7	83·3
8	79·8	79·9	80·4	80·2	80·2	80·3	80·4	80·1	80·9	81·0	81·9	83·2	83·4	84·3	84·4
9	81·1	79·6	78·6	79·9	79·8	80·2	79·6	79·7	81·6	82·9	83·5	83·4	83·4	82·6	83 3
10	81·3	81·1	81·2	80·9	81·0	81·0	81·1	81·2	81·7	82·1	82·3	82·6	82·9	83·1	82·6
11	81·0	80·9	80·8	80·8	80·2	79·6	79·8	81·3	82·7	83·4	83·8	84·3	84·9	85·1	85·3
12	81·0	80·9	80·9	80·9	81·0	80·6	81·0	81·7	81·0	79·9	82·0	83·7	84·6	85·4	**85·5**
13	81·0	80·5	80·5	80·6	80·5	80·5	80·8	81·4	82·1	83·4	84·4	85·0	85·1	85·0	85·1
14	81·2	81·2	81·2	81·0	81·0	80·9	81·2	82·1	83·5	83·9	84·0	84·1	84·4	84·6	83·2
15	81·0	81·3	81·0	80·8	80·9	80·8	80·9	81·5	82·4	83·4	82·8	83·7	84·4	83·7	83·3
16	81·5	81·5	81·5	81·4	81·3	81·3	81·6	82·2	80·8	82·3	83·2	83·1	84·1	84·6	83·9
17	80·6	80·6	80·7	79·3	79·9	78·5	79·1	80·0	78·1	78·0	80·1	81·0	80·5	80·1	81·9
18	80·9	80·6	79·4	79·7	79·7	79·4	80·4	81·0	81·5	82·8	83·2	82·7	84·4	83·6	82·5
19	79·0	80·3	81·0	81·0	80·7	80·7	80·4	79·9	80·8	81·9	82·5	83·1	83·1	83·6	82·1
20	79·7	79·4	79·6	79·9	79·8	80·0	79·6	79·8	81·3	81·8	81·8	82·6	81·4	83·0	83·5
21	80·7	80·2	80·4	80·7	80·1	79·9	80·4	80·3	81·3	81·7	81·9	82·3	81·0	79·7	81·2
22	80·7	79·8	80·5	80·5	80·1	80·5	80·6	81·2	81·7	82·7	82·5	83·7	83·8	83·6	83·0
23	80·5	80·6	80·6	80·5	80·5	80·1	80·0	80·9	81·4	82·6	83·7	84·2	84·6	84·7	84·7
24	80·4	80·1	79·9	80·0	79·8	79·7	78·8	79·5	81·3	81·1	82·3	83·3	84·0	83·9	84·6
25	79·6	79·5	79·4	79·0	79·0	78·8	79·1	80·3	81·5	82·5	81·1	81·4	82·6	84·2	84·2
26	79·8	79·5	78·8	79·0	78·3	77·8	78·3	79·6	81·1	82·0	82·4	83·4	83·1	82·1	82·3
27	80·4	80·2	80·0	79·9	79·8	79·8	79·7	80·3	81·4	81·1	79·2	81·1	82·5	83·4	83·7
28	80·5	80·5	80·5	80·5	79·3	79·7	79·6	79·1	78·8	80·3	80·7	79·0	80·2	81·3	82·4
29	80·3	79·5	79·8	79·4	78·9	79·2	79·9	80·6	81·2	82·3	83·2	83·7	83·9	83·7	84·1
30	80·4	80·5	80·1	79·7	79·9	79·9	79·0	79·8	80·8	78·9	80·6	81·3	82·2	82·3	81·9
31	78·3	79·1	78·6	78·9	79·0	79·7	80·2	80·7	81·5	82·5	82·7	83·9	82·0	83·4	82·8
Mean . .	80·4	80·2	80·2	80·2	**80·0**	80·0	80·1	80·6	81·2	81·6	82·3	82·8	82·9	83·0	**83·2**
Variation. .	—0·8	—1·0	—1·0	—1·0	**—1·2**	—1·2	—1·1	—0·6	0·0	+0·4	+1·1	+1·6	+1·7	+1·8	**+2·0**

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1	79·3	79·0	79·0	78·3	78·1	78·3	78·9	79·5	81·3	81·1	80·2	80·7	81·5	81·1	80·4
2	77·8	78·1	78·3	78·4	78·5	78·6	79·2	79·6	79·9	79·8	81·0	81·4	82·8	83·0	83·0
3	79·7	79·9	79·7	79·6	79·8	79·9	79·6	78·6	80·2	81·2	81·4	80·9	80·7	79·9	79·7
4	78·4	79·5	78·2	78·3	79·2	79·6	79·8	79·8	79·7	79·9	80·0	82·2	83·1	82·8	82·3
5	76·1	76·1	75·8	76·0	76·2	**75·8**	76·0	76·6	77·3	77·9	77·7	78·3	77·6	76·6	77·0
6	78·9	79·2	78·9	78·2	78·6	79·2	79·5	79·6	80·3	80·8	81·5	82·2	81·8	82·4	82·7
7	80·4	80·2	79·9	79·8	79·9	79·8	79·8	80·3	81·0	81·6	81·9	82·1	82·4	82·4	82·4
8	79·7	79·6	79·7	79·5	79·4	78·8	79·2	80·0	80·9	80·7	80·0	80·8	82·0	81·5	79·6
9	79·5	79·5	78·3	78·0	78·7	78·2	77·8	77·9	77·8	79·8	80·7	81·2	81·5	81·7	82·0
10	79·5	79·5	79·3	79·3	79·2	79·3	79·4	79·7	80·2	81·1	81·7	82·3	82·4	82·3	81·7
11	79·9	79·7	79·1	78·9	78·4	78·0	79·0	79·5	79·3	79·8	81·2	81·4	81·2	81·2	81·3
12	79·5	79·5	79·5	79·4	79·4	78·6	79·2	79·5	79·5	79·0	79·3	79·0	79·3	79·9	79·2
13	79·5	79·4	79·5	79·4	79·1	78·4	78·8	78·9	79·2	79·1	78·6	81·4	81·2	78·8	79·9
14	78·0	76·6	77·8	78·3	78·6	78·6	78·2	79·0	80·6	79·8	79·0	80·8	81·2	81·8	80·4
15	79·2	79·0	79·0	79·0	78·0	76·9	77·6	78·8	80·3	79·8	80·7	79·6	81·4	81·2	82·9
16	78·2	77·7	77·9	78·0	78·2	78·1	78·8	78·7	81·2	82·1	82·2	82·0	83·4	83·5	83·5
17	79·5	79·4	79·5	79·4	77·9	78·7	77·9	78·0	77·7	77·1	79·1	80·4	80·8	82·3	83·0
18	79·1	79·0	78·5	78·2	78·6	78·5	79·1	79·4	80·9	82·0	82·7	82·6	83·4	83·2	83·0
19	79·3	79·1	79·1	79·0	79·0	79·0	79·1	80·0	81·7	82·7	83·2	84·0	84·6	**84·6**	84·1
20	79·6	79·5	79·5	79·6	79·5	79·5	79·9	80·5	81·3	82·2	81·3	82·2	82·9	**83·7**	**81·9**
21	80·0	80·0	79·9	79·8	80·0	80·0	80·1	80·7	81·5	82·6	83·4	83·9	84·1	84·1	84·5
22	79·2	79·1	79·0	78·4	78·5	78·1	77·6	78·5	80·5	81·4	82·3	83·3	84·1	83·9	83·8
23	79·6	79·5	79·5	79·5	79·4	79·4	79·7	80·1	80·8	82·4	83·6	83·4	84·1	82·3	84·6
24	80·0	79·8	79·5	79·4	79·1	79·2	79·3	79·1	80·6	81·1	81·6	81·9	82·8	83·4	83·5
25	79·5	79·4	79·2	79·1	78·8	78·5	78·6	79·1	81·2	81·9	82·8	83·1	84·0	84·5	84·6
26	80·2	79·9	79·5	79·2	79·0	78·9	77·7	77·4	77·5	79·9	80·7	82·1	83·0	83·4	83·8
27	79·4	79·4	79·4	79·4	79·2	79·0	79·2	80·0	80·7	81·9	82·5	81·6	81·3	81·7	83·5
28	79·7	78·8	78·9	78·0	77·1	77·9	77·9	78·7	79·6	80·6	81·2	81·0	81·1	82·2	83·7
29	79·2	79·3	79·4	78·6	78·6	78·7	79·2	79·9	81·3	82·6	83·5	84·1	84·4	84·7	**85·2**
30	79·5	79·4	79·2	79·4	79·1	78·9	78·8	79·3	81·3	82·2	83·5	83·9	84·3	84·5	84·7
31	79·7	79·7	79·5	79·4	79·4	79·6	79·5	79·9	80·9	81·5	80·4	79·4	78·7	80·0	81·2
Mean . .	79·3	79·2	79·0	78·9	78·8	**78·7**	78·9	79·3	80·2	80·8	81·3	81·7	82·2	82·2	**82·4**
Variation. .	—1·0	—1·1	—1·3	—1·4	—1·5	**—1·6**	—1·4	—1·0	—0·1	+0·5	+1·0	+1·4	**+1·9**	+1·9	**+2·1**

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY. (IN DEGREES FAHRENHEIT.)

Hours.									Mean.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
										H. M.		H. M.		
83·9	83·5	82·8	82·2	82·0	81·5	81·5	81·5	81·5	80·9	14 57	84·3	9 8	**75·9**	1
81·8	82·0	82·0	81·6	81·6	81·6	81·7	80·5	79·4	81·6	11 41	83·5	23 45	78·4	2
81·4	79·8	79·0	79·6	79·3	79·5	79·2	78·7	78·6	80·4	11 17	82·4	1 46	76·6	3
81·3	80·3	80·4	81·5	81·5	81·4	81·0	81·0	80·9	80·7	12 34	82·5	4 12	77·2	4
82·8	82·7	81·9	81·3	81·4	81·4	81·3	81·4	81·1	81·4	15 0	84·5	9 36	78·2	5
82·3	81·0	80·9	80·8	80·8	81·0	81·0	81·0	80·7	80·9	11 21	84·6	12 55	77·5	6
83·2	82·1	81·9	81·4	81·4	80·8	81·1	80·9	80·6	81·4	10 42	83·5	1 18	78·2	7
83·6	82·3	82·3	81·8	81·4	81·2	81·5	81·4	81·2	81·6	15 0	84·8	1 6	79·0	8
83·6	83·5	82·6	81·7	81·4	81·4	81·3	81·0	81·2	81·5	10 38	84·0	1 51	77·5	9
72·5	82·2	82·0	81·5	71·2	80·2	80·5	80·5	80·4	81·5	13 11	83·5	20 29	79.7	10
84·4	84·0	83·5	82·1	82·0	81·8	81·6	80·9	81·2	82·3	14 28	85·5	4 58	79·1	11
85·4	84·9	81·9	81·6	81·5	81·5	81·5	81·5	81·5	82·1	14 8	**85·7**	9 7	78·7	12
85·0	84·5	83·6	82·8	82·3	81·9	81·6	81·4	81·3	**82·5**	12 6	85·5	1 12	80·3	13
83·8	83·3	83·0	80·2	79·3	81·0	81·1	81·2	81·5	82·2	14 9	85·5	19 10	78·4	14
83·8	80·9	81·7	81·6	81·7	81·4	81 3	81·3	81·4	82·0	12 3	84·5	16 28	79·4	15
83·5	83·8	83·0	82·6	82·4	81·2	80·8	80·5	80·6	82·2	14 14	84·9	21 54	79·5	16
80·4	79·9	78·7	80·4	78·8	80·6	80·2	78·8	79·4	**79·8**	15 43	82·7	9 10	76·8	17
82·8	82·1	81·8	81·5	81·4	80·9	80·4	80·7	80·2	81·4	12 34	84·8	2 28	78·9	18
80·3	80·5	81·6	81·5	81·5	81·4	81·2	81·3	81·4	81·3	13 22	84·6	0 42	77·6	19
83·1	82·0	81·7	81·5	81·5	81·5	81·0	80·5	80·7	81·1	14 57	84·4	0 51	78·2	20
81·0	81·4	81·5	81·5	81·5	81·0	80·8	80·8	80·3	80·9	12 28	83·5	12 59	78·8	21
82·5	82·3	82·0	81 4	81·5	81·1	80·7	80·6	80·5	81·6	11 49	84·5	1 37	79·4	22
84·6	82·7	81·0	79·7	80·4	80·6	80·7	80·6	80·5	81·7	13 50	84·9	18 37	78·3	23
82·6	82·5	80·0	79·6	80·3	80·5	80·5	80·5	79·8	81·0	14 10	85·0	17 38	78·4	24
84·3	83·9	82·1	79·8	80·3	79·5	79·8	80·2	80·0	80·9	14 31	84·7	5 58	76·4	25
82·2	82·3	81·8	81·4	81·1	81·0	80·7	80·5	80·5	80·8	12 11	83·8	5 20	76 5	26
84·2	82·8	82·3	78·6	80·0	80·4	80·5	80·5	80·4	80·9	15 20	84·5	18 40	77·5	27
81·6	77·8	77·7	79·5	80·1	79·3	79·5	79·5	80·0	79·9	14 20	82·6	16 21	76·5	28
84·1	83·3	82·4	81·5	81·0	80·8	79·9	79·8	80·4	81·4	14 34	84·5	3 55	77·8	29
82·5	79·7	79·4	79·7	79·9	79·4	79·3	79·5	79·3	80·3	15 25	83·0	9 23	78·0	30
82·5	82·1	80·7	80·0	80·1	79·6	79·8	79·1	78·7	80·7	11 30	84·5	2 20	77·9	31
82·9	82·1	81·5	81·0	81·0	80·9	80·7	80·6	80·5	81·2					Mean.
+1·7	+0·9	+0·3	—0·2	—0·2	—0·3	—0·5	—0·6	—0·7						Variation.

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79·5	78·4	78·7	79·1	79·3	79·4	79·2	79·0	78·5	79·5	12 40	82·1	4 3	77·5	1
82·6	82·7	81·9	80·4	79·5	79·5	79·9	79·8	79·7	80·2	12 48	83·9	1 46	77·4	2
80·3	79·5	79·8	79·9	80·0	80·3	80·3	79·7	79·3	80·0	11 10	81·8	7 32	78·1	3
81·3	80·5	80·3	79·5	79·4	79·3	78·6	77·4	77·0	79·8	12 58	83·5	23 58	76·4	4
77·6	77·0	77·3	76·5	76·3	77·2	77·8	78·6	78·7	**77·0**	23 25	78·9	6 34	**75·3**	5
82·2	81·4	81·2	80·5	80·6	80·5	80·5	80·4	80·4	80·5	14 22	83·0	3 50	77·8	6
81·9	81·3	80·8	80·6	80·5	80·5	80·5	80·4	80·2	80·9	13 32	82·7	5 45	79·5	7
79·8	79·2	78·1	78·5	79·1	78·1	79·2	79·6	79·5	79 7	12 53	82·7	17 6	77·3	8
81·8	81·4	80·7	80·0	79·9	79·7	79·6	79·6	79·5	79·8	14 29	82·6	8 8	77·1	9
81·6	80·9	80·5	80·2	80·0	79·9	80·0	80·0	80·0	80·4	13 4	82·9	4 20	79·1	10
81·1	80·3	79·9	79·6	79·8	79·8	79·8	79·8	79·8	79·9	13 10	82·0	5 20	77·2	11
78·8	79·0	79·4	79·5	79·3	79·0	79·2	79·4	79·5	79·3	11 28	80·6	11 46	76·4	12
80·2	78·7	79·0	79·3	79·2	79·2	79·3	79·3	79·3	79·4	12 38	82·8	9 50	76·4	13
80·0	77·9	78·4	78·9	78·8	78·5	78·7	79·1	79·2	79·1	13 35	83·2	1 10	75·8	14
83·0	81·9	80·6	80·1	79·9	77·5	77·7	78·8	79·1	79·7	14 36	83·7	5 12	76·3	15
82·5	82·6	81·7	80·6	80·4	79·5	79·4	79·3	79·5	80·4	12 50	83·8	0 56	77·5	16
33·6	81·0	80·4	79·6	79·5	79·4	79·3	79·2	79·4	79·7	15 15	83·8	9 30	76·6	17
82·9	82·8	82·0	80·4	80·2	80·2	79·9	79·7	79·5	80·7	14 38	83·8	3 5	77·8	18
84·1	83·8	81·0	80·6	80·5	80·6	80·5	80·4	80·0	81·3	12 8	84·9	6 8	78·7	19
80·9	81·4	81·3	81·0	80·9	80·7	80·4	80·2	80·2	80·8	14 7	84·0	1 2	79·1	20
83·7	83·8	82·2	80·9	80·4	79·5	79·0	79·2	79·4	81·4	12 46	84·7	20 45	78·4	21
83·8	82·0	81·4	80·9	80·5	80·0	80·0	80·1	80·2	80·7	12 15	84·8	6 48	76·5	22
84·5	83·9	82·5	81·5	81·1	80·6	80·3	80·2	80·1	81·4	14 26	84·9	5 55	79·2	23
83·5	83·5	82·4	81·2	80·6	80·1	79·9	79·8	79·8	80·9	16 5	83·8	7 11	78·7	24
84·6	83·9	82·5	81·5	81·0	80·6	80·5	80·3	80·3	81·3	14 46	85·0	5 58	78·3	25
83·7	82·8	81·7	80·6	80·1	79·7	79·5	79·5	79·5	80·4	14 5	84·2	8 0	76·6	26
83·8	83·5	82·4	81·0	80·6	80·2	79·9	79·2	79·6	80·8	14 53	84·3	5 36	78·6	27
83·0	82·2	81·7	80·8	80·4	79·9	79·7	79·6	79·5	80·1	14 37	84·1	4 2	76·5	28
84·3	83·4	82·1	81·2	80·6	80·2	79·8	79·5	79·5	81·2	14 42	**85·4**	3 40	78·3	29
84·8	84·9	83·6	82·3	81·5	81·3	81·1	80·9	80·2	**81·6**	16 15	85·3	6 4	78·6	30
82·1	82·0	81·8	80·8	80·6	80·5	80·4	79·7	79·4	80·3	15 12	82·6	12 25	78·3	31
82·2	81·5	80·9	80·2	80·0	79·7	79·7	79·6	79·5	80·3					Mean.
+1·9	+1·2	+0·6	—0·1	—0·3	—0·6	—0·6	—0·7	—0·8						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN DEGREES FAHRENHEIT.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	79·1	78·7	78·3	78·4	78·3	77·8	77·7	78·9	79·9	81·3	82·2	83·3	83·9	84·8	85·2
2	80·9	80·7	80·4	80·3	79·7	79·4	79·6	81·3	83·0	83·8	85·0	85·7	86·3	86·4	84·6
3	81·5	81·4	81·3	81·3	80·9	80·5	80·5	81·5	83·0	83·8	85·0	85·8	86·2	86·3	86·1
4	80·9	81·0	80·8	80·5	80·4	80·5	80·8	81·3	81·7	82·8	84·6	85·5	85·8	86·0	86·1
5	80·2	80·1	80·1	79·9	79·8	80·1	80·4	80·8	81·6	82·8	83·6	83·7	85·6	85·6	85·9
6	81·7	81·6	81·3	80·3	79·6	77·3	78·2	78·8	78·8	79·1	80·7	81·8	82·3	81·7	80·4
7	76·5	76·6	76·2	76·1	77·0	76·9	77·1	77·5	78·6	80·2	81·0	81·6	82·5	82·9	83·7
8	77·3	77·5	77·3	77·3	77·3	77·2	77·5	79·2	80·3	81·4	81·9	82·6	83·4	82·5	78·7
9	78·6	79·3	79·0	79·2	76·1	76·0	78·2	78·3	79·1	78·8	78·8	77·0	75·5	75·0	74·9
10	76·9	77·9	76·8	77·3	77·3	77·0	75·8	75·5	75·5	74·6	75·4	75·9	75·2	75·1	75·5
11	74·6	74·8	74·9	75·0	75·2	74·6	74·8	74·9	75·5	75·6	76·8	77·8	78·0	78·6	78·9
12	78·4	78·0	77·9	77·9	78·1	78·3	78·2	78·4	79·2	78·8	77·4	77·4	77·3	77·5	77·9
13	76·4	7·5	77·2	77·5	77·5	77·5	77·3	77·1	77·2	77·0	77·3	76·5	76·5	77·0	76·7
14	76·9	77·4	77·6	78·0	78·4	77·0	77·2	77·5	78·5	78·6	79·2	80·9	79·9	80·2	79·5
15	79·3	79·3	79·2	78·9	79·3	79·4	79·7	79·9	80·4	80·6	81·3	81·5	81·8	81·0	80·5
16	78·5	78·6	78·6	78·7	78·8	78·9	79·2	79·5	80·8	81·9	82·6	83·1	83·6	83·5	83·3
17	79·4	79·2	79·1	78·9	78·9	79·0	79·3	80·1	81·2	82·3	82·9	83·0	83·8	84·1	84·3
18	80·4	80·2	80·2	79·9	79·7	79·6	79·9	80·7	81·7	81·9	83·2	83·1	83·7	84·5	84·7
19	79·7	79·7	79·3	78·2	76·8	76·6	76·9	77·8	78·4	78·3	79·6	80·4	82·3	82·9	83·3
20	79·1	78·6	78·6	78·5	78·5	78·5	78·1	78·0	80·0	80·9	81·2	82·6	83·0	84·0	84·2
21	78·5	79·1	78·7	77·8	78·1	78·7	78·6	79·8	80·0	81·0	81·6	82·0	82·7	83·5	83·7
22	79·4	78·9	78·4	78·1	77·5	77·5	78·0	79·1	80·8	80·6	80·5	81·7	82·8	83·5	83·6
23	79·0	78·8	78·5	78·1	77·6	77·3	77·4	78·5	80·0	81·1	82·3	82·5	83·0	83·2	83·2
24	79·0	79·1	78·8	78·5	78·8	78·1	78·1	78·9	79·6	80·5	81·4	81·4	82·3	83·5	83·6
25	78·5	78·3	78·3	78·7	78·9	78·5	78·2	79·0	80·6	81·9	82·9	83·3	84·3	84·8	84·7
26	80·5	80·3	79·8	79·5	79·5	79·4	79·6	80 5	82·5	82·6	83·2	83·9	84·8	84·6	85·1
27	80·8	80·5	79·6	79·5	79·8	80·0	80·2	81·3	82·2	83·5	84·4	85·0	85·7	85·9	85·8
28	81·0	80·9	80·6	80·4	79·8	79·4	79·8	81·3	82·9	84·1	85·2	85·4	85·6	86·2	86·5
29	82·0	81·8	81·6	81·3	80·6	80·4	80·7	82·0	83·4	84·6	85·5	86·7	87·6	87·7	88·8
30	82·7	82·4	81·8	81·3	81·0	80·9	81·1	82·1	83·2	84·3	85·6	86·2	86·8	87·2	87·4
Mean .	79·3	79·2	79·0	78·8	78·6	78·4	78·6	79·3	80·3	81·0	81·7	82·2	82·7	83·0	82·9
Variation .	—1·2	—1·3	—1·5	—1·7	—1·9	—2·1	—1·9	—1·2	—0·2	+0·5	+1·2	+1·7	+2·2	+2·5	+2·4

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1	82·0	81·6	81·4	81·2	80·9	80·6	80·7	81·8	82·5	83·3	84·6	85·3	86·0	86·0	86·1
2	80·5	80·4	80·0	79·2	78·5	78·6	79·2	80·2	81·8	82·5	82·8	83·1	84·0	84·7	84·9
3	80·3	80·0	79·7	79·5	79·5	79·4	79·8	80·4	81·1	81·8	82·6	83·6	84·9	85·4	85·4
4	79·8	79·6	79·2	78·9	78·6	78·4	78·8	80·4	81·8	82·8	83·3	84·0	84·4	85·0	84·9
5	78·8	78·5	78·3	78·0	77·8	77·8	78·2	79·8	81·3	82·2	83·2	83·4	84·0	84·8	84·9
6	80·4	80·1	79·8	79·7	78·9	77·7	77·6	79·8	81·5	82·8	83·9	83·8	84·3	85·2	85·5
7	75·6	75·4	75·3	74·8	74·4	74·4	75·8	77·5	78·8	79·9	81·8	83·7	84·4	84·7	85·0
8	78·7	79·3	79·6	79·2	78·8	78·6	78·8	80·0	81·0	82·9	84·0	85·6	87·5	88·6	88·9
9	81·4	80·7	80·3	80·0	79·6	79·6	78·8	81·1	82·3	83·4	84·6	85·9	88·0	88·4	88·7
10	79·8	80 1	80·2	80·2	80·4	80·3	80·6	80·8	81·6	82·0	83·0	84·8	85·8	85·7	86·4
11	79·7	79·4	79·3	79·4	80·1	79·7	80·2	81·5	82·9	83·9	85·6	87·3	88·3	89·0	88·4
12	79·1	79·2	78·8	79·1	78·9	78·6	78·7	80·4	82·2	83·4	85·2	86·7	87·0	87·2	87·7
13	83·0	82·6	82·2	81·9	81·4	80·9	81·0	81·7	83·1	84·4	86·1	87·9	89·4	89·4	89·3
14	81·7	82·3	82·3	81·4	80·9	80·9	81·3	82·3	84·0	85·7	87·9	89·1	89·5	90·3	90·4
15	82·6	82·3	81·9	81·5	83·3	80·4	80·0	80·8	82·7	84·6	86·6	87·7	89·1	90·5	91·1
16	83·1	82·4	81·7	81·3	80·6	80·4	80·3	81·3	83·0	84·5	86·5	89·0	90·7	90·5	90·1
17	81·3	81·6	81·3	80·8	80·6	80·2	80·3	81·3	82·6	84·0	85·4	86·8	88·5	89·6	90·1
18	82·6	82·6	82·3	81·6	81·3	80·5	80·7	82·1	83·3	84·5	86·1	87·5	87·9	88·8	89·2
19	82·9	83·2	83·3	82·6	82·2	83·0	81·3	82·9	84·8	86·2	88·1	89·1	89·3	89·7	89·8
20	82·8	82·7	82·7	82·4	82·4	81·8	81·3	82·3	84·4	85·8	87·1	87·7	88·4	89·0	89·4
21	83·0	82·6	82·2	81·6	80·7	79·8	80·3	81·6	83·9	85·4	87·3	88·4	88·9	89·2	89·3
22	82·6	82·0	81·7	81·3	80·7	80·0	80·4	81·5	83·3	84·3	85·6	86·7	87·5	88·3	88·0
23	80·0	80·4	79·7	79·4	79·3	79·2	78·6	79·9	82·3	83·7	85·5	86·8	86·7	86·8	87·1
24	81·8	82·0	82·6	82·3	80·7	79·4	79·0	80·5	84·3	86·2	87·9	89·4	90·4	89·7	88·8
25	81·7	81·3	80·6	80·6	79·7	78·4	78·4	80·7	83·6	85·4	86·7	88·1	90·0	91·0	90·3
26	80·8	80·0	80·4	81·0	80·9	80·6	80·4	80·3	81·3	87·8	85·4	87·1	89·5	89·4	89·3
27	82·9	82·6	83·7	83·4	82·6	82·2	82·1	82·4	83·6	85·1	86·4	86·9	87·4	87·3	86·4
28	81·6	81·2	78·9	79·2	79·7	80·2	80·8	81·7	82·8	83·4	85·7	87·9	89·3	89·3	89·1
29	79·8	79·2	79·0	78·8	78·9	77·2	77 8	78·1	80·0	81·8	81·8	81·8	81·2	82·3	82·3
30	79·3	79·0	78·4	78·3	77·9	77·8	78·0	78·4	79·7	81·2	82·2	82·6	83·1	83·4	82·2
31	78·1	78·0	77·5	77·5	77·5	77·2	77·4	76·9	77·0	77·7	78·7	80·1	79·9	78·7	79·3
Mean .	80·9	80·7	80·5	80·2	79·8	79·5	79·6	80·7	82·2	83·6	84·9	86·1	86·9	87·4	87·4
Variation .	—2·0	—2·2	—2·4	—2·7	—3·1	—3·4	—3·3	—2·2	—0.7	+0·7	+2·0	+3·2	+4·0	+4·5	+4·5

(Averages for periods of sixty minutes from full hour to full hour ot local mean time.)

SEPTEMBER. (IN DEGREES FAHRENHEIT).

Hours.									Mean.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
										H. M.		H. M.		
84·8	84·1	83·3	82·3	83·2	82·7	82·6	82·6	82·2	81·5	14 30	85·6	5 58	77·4	1
83·5	82·8	82·6	82·5	82·2	82·4	82·4	82·1	82·0	82·5	12 43	86·8	5 14	79·0	2
85·9	84·1	83·2	82·2	81·9	81·5	81·5	81·2	80·8	82·8	13 38	86·8	6 8	80·1	3
85·7	84·9	83·8	82·4	82·0	81·6	81·4	80·8	80·5	82·6	14 18	86·5	4 40	80·0	4
85·9	84·3	83·8	82·8	82·6	82·5	82·5	82·2	82·0	82·5	14 31	86·5	4 0	79·6	5
79·4	79·8	78·9	77·7	77·2	76·5	76·5	76·5	76·6	79·3	12 0	83·0	21 27	76·0	6
84·2	84·1	82·9	82·3	80·1	78·2	77·6	77·5	77·3	79·5	16 11	84·9	2 57	75·8	7
79·0	79·4	79·3	79·0	78·9	78·7	78·8	79·2	78·2	79·2	13 30	84·7	5 32	76·9	8
75·2	76·2	76·3	75·9	76·4	77·0	77·6	78·1	78·2	77·3	3 40	79·6	13 58	74·5	9
76·7	77·5	77·3	76·9	76·0	75·2	74·9	75·0	75·1	**76·1**	1 50	78·2	9 42	**74·2**	10
79·0	78·3	77·7	77·4	77·4	77·9	78·2	78·2	78·4	76·8	14 9	79·5	1 58	**74·3**	11
78·0	77·9	77·6	77·5	77·4	77·2	76·9	76·6	76·5	77·8	8 54	79·5	23 58	76·4	12
77·4	77·2	77·2	77·3	76·9	77·0	76·9	76·5	76·5	77·0	18 43	77·9	23 5	76·2	13
75·4	77·3	78·4	78·5	78·9	79·4	79·5	79·5	79·5	78·5	11 57	81·6	15 40	74·7	14
80·6	80·6	80·4	79·9	79·9	79·7	79·6	77·6	78·1	79·9	12 20	82·4	22 20	76·7	15
83·7	83·1	81·9	81·2	80·6	79·7	79·8	79·5	79·5	80·8	15 18	84·2	0 10	77·9	16
84·0	82·8	82·3	81·4	81·0	80·7	80·5	80·4	80·4	81·2	15 27	84·9	5 9	78·2	17
84·5	83·5	82·3	81·1	80·7	80·4	80·2	79·9	79·9	81·5	14 30	85·2	4 5	79·2	18
83·3	83·1	82·4	81·0	80·4	79·6	79 4	79·1	79·0	79·9	16 6	83·7	4 38	76·1	19
84·5	83·8	82·9	81·6	81·0	80·4	80·2	80·0	79·7	80·7	15 10	85·1	6 55	77·2	20
84·2	83·3	82·0	80·9	80·6	80·4	80·0	79·7	79·5	80·6	15 22	84·6	3 30	77·5	21
83·5	83·4	81·9	80·5	80·1	79·5	79·4	79·0	78·8	80·3	14 18	84·2	5 20	76·9	22
83·5	83·3	82·0	80·7	80·0	79·2	79·0	78·7	79·1	80·3	13 6	83·8	6 5	77·0	23
83·9	83·4	82·3	81·0	80·6	80·0	79·8	79·4	79·0	80·5	15 30	84·4	5 50	77·3	24
84·5	83·9	83·0	81·8	81·6	81·5	81·4	81·0	80·7	81·3	12 35	85·1	6 15	78·1	25
84·9	84·2	83·2	82·2	81·8	81·5	81·5	81·5	81·3	82·0	12 43	85·4	6 4	79·2	26
85·5	84·9	83·6	82·7	82·3	81·8	81·6	81·4	81·3	82·5	13 58	86·3	3 15	79·2	27
86·4	85·7	84·6	83·8	83·3	83·2	83·0	82·6	82·3	83·1	15 30	87·2	5 40	78·9	28
88·6	87·7	86·3	85·0	84·5	84·1	83·6	83·2	83·2	**84·2**	14 15	**89·5**	6 4	80·1	29
86·8	85·3	84·4	83·9	83·4	83·2	82·8	82·5	82·5	83·7	14 30	88·1	6 15	80·4	30
82·7	82·3	81·6	80·8	80·4	80·1	80·0	79·7	79·6	80·5					Mean.
+2·2	+1·8	+1·1	+0·3	—0·1	—0·4	—0·5	—0·8	—0·9						Variation.

OCTOBER.

85·7	84·3	83·0	82·2	81·7	81·4	81·3	80·8	80·6	82·7	13 58	86·6	6 3	80·3	1
84·5	83·4	82·1	81·5	81·2	80·6	80·4	80·3	80·4	81·5	13 55	85·2	4 20	78·2	2
85·1	84·0	82·4	81·5	81·3	80·8	80·8	80·3	80·0	81·7	13 50	85·7	5 10	79·0	3
84·5	83·6	82·3	81·6	81·2	80·4	80·1	79·6	79·4	81·3	13 30	85·5	6 3	77·9	4
84·8	84·0	82·6	81·6	81·4	81·0	80·7	80·5	80·5	81·2	14 3	85·4	6 0	77·3	5
85·2	84·2	81·8	79·3	76·5	74·7	75·8	75·7	75·8	80·4	14 12	86·2	19 56	**74·0**	6
85·7	85·4	83·0	81·2	80·6	80·2	80·2	79·6	79·3	79·9	15 58	86·1	6 30	74·2	7
88·9	87·3	85·5	83·9	83·3	82·6	82·2	82·2	82·4	82·9	13 36	89·3	5 25	78·1	8
88·1	87·4	86·0	84·4	81·7	81·4	80·7	80·2	80·2	83·0	14 12	89·4	6 20	78·0	9
86·5	86·3	85·5	84·2	81·0	79·6	79·8	80·4	80·2	82·3	15 55	87·0	19 56	79·1	10
88·6	88·2	84·0	79·3	79·8	79·7	79·2	79·2	79·3	82·6	13 50	89·6	18 25	78·7	11
87·7	87·2	85·9	85·0	84·4	84·2	83·8	83·7	83·5	83·2	15 8	88·3	6 2	78·0	12
89·0	88·1	86·7	85·6	85·1	84·7	83·7	83·1	82·4	84·7	12 45	89·8	6 8	80·4	13
90·4	89·1	87·4	86·0	85·6	84·4	83·8	83·1	82·6	85·1	15 10	91·1	5 18	80·3	14
90·7	89·7	87·0	86·8	86·0	84·7	83·9	83·2	83·1	84·9	14 30	**91·7**	4 40	79·7	15
89·6	88·4	86·9	86·0	85·6	84·8	84·0	82·8	81·8	84·8	13 0	91·5	6 0	79·8	16
90 3	89·2	87·0	84·8	84·1	83·5	83·3	83·1	83·1	84·3	15 10	90·9	5 40	79·7	17
88·7	87·7	86·8	85·9	85·6	84·5	84·0	82·9	83·4	84·6	14 7	90·2	5 10	80·0	18
89·6	88·7	87·3	85·2	84·6	84·4	84·3	83·5	83·1	**85·4**	14 22	90·2	6 20	80·6	19
89·1	88·0	86·5	85·3	84·3	83·6	83·5	83·3	83·6	84·9	14 10	90·0	6 40	80·5	20
89·1	88·3	87·0	85·9	85·2	84·3	83 5	83·0	83·0	84·7	14 30	90·0	5 20	79·4	21
87·8	86·9	85·0	83·9	83·2	82·4	81·5	80·2	80·0	83·5	13 55	89·1	5 20	79·6	22
86·8	85·6	84·6	84·0	83·7	82·8	82·2	81 8	81·3	82·8	13 50	87·8	6 30	78·0	23
87·9	86·0	84·8	84·6	84·4	83·6	83·4	83·5	82 7	84·4	12 53	91·1	6 30	78·5	24
89·3	87·5	85·8	84·7	84·3	83·4	82·3	81·9	81·9	84·1	14 0	92·0	6 3	77·4	25
89·0	87·0	84·6	84·0	83·8	83 6	83·2	82·4	82·6	83·9	12 40	90·4	1 50	79·7	26
85·3	84·3	83·8	83·5	83·4	82·3	81·9	81·9	81·8	83·9	13 0	88·3	6 20	81·5	27
88·6	87·8	80·9	79·1	79·6	79·6	79·8	79·9	79·9	82·7	13 35	90·2	18 25	78·0	28
81·4	80·6	80·0	79·6	79·3	78·8	79·0	79·0	79·0	79·9	10 20	83·8	5 30	76·4	29
81·5	80·8	80·1	79·7	79·2	78·8	78·6	78·4	78·3	79·9	13 45	84·0	5 0	77·5	30
80·4	79·4	78·4	78·1	78·1	77·8	77·3	76·8	76·4	**78·1**	12 10	81·8	24 0	75·9	31
87·1	86·1	84·4	83·2	82·6	81·9	81·6	81·2	81·0	82·9					Mean.
+4·2	+3·2	+1·5	+0·3	—0·3	—1·0	—1·3	—1·7	—1·9						Variation.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN DEGREES FAHRENHEIT.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	75·7	75·3	75·6	76·3	76·5	76·5	76·7	77·3	77·7	79·0	79·5	80·2	80·4	81·0	80·4
2	76·9	76·9	77·0	77·5	77·4	77·4	77·5	78·0	79·3	79·9	81·3	82·0	82·6	82·3	82·5
3	77·7	78·0	78·3	78·0	77·0	76·4	76·4	78·3	80·4	81·1	82·3	83·1	83·8	84·1	83.4
4	79·3	79·1	79·4	79·1	78·3	77·9	77·9	79·5	82·1	83·9	84·9	87·2	88·8	88·0	87·2
5	81·9	81·9	81·2	80·7	80·4	80·0	80·2	80·8	82·8	84·4	86·3	87·7	87·6	87·3	87·5
6	80·9	80·4	79·9	79·4	79·5	79·4	79·3	80·3	81·6	83·4	85·6	87·0	88·0	**89·2**	88·6
7	78·5	78·2	78·0	78·0	77·6	76·9	77·0	78·1	79·6	80·5	82·5	83·9	84·8	86·1	86·9
8	76·3	76·0	75·4	74·6	73·5	72·8	72·7	74·0	76·3	78·3	80·5	82·3	84·1	85·3	85·3
9	74·1	73·4	72·8	72·6	72·9	72·8	**72·5**	73·3	75·4	77·5	80·5	82·1	83·9	84·6	84·5
10	74·4	74·3	74·4	74·3	73·7	73·3	72·7	73·4	75·9	78·2	80·3	81·8	84·3	85·1	85·4
11	74·9	74·5	74·0	74·1	73·8	73·1	72·8	73·6	75·7	78·0	81·1	83·3	84·7	86·0	87·3
12	76·1	76·1	74·8	74·4	74·2	73·4	72·8	73·4	75·0	77·4	80·1	81·8	83·8	85·2	85·9
13	75·6	75·1	74·8	74·2	73·5	73·2	72·8	72·5	75·3	77·8	80·9	82·8	84·8	85·5	86·9
14	75·2	74·3	74·0	73·9	73·4	72·9	**72·3**	73·6	75·8	78·0	81·0	84·0	85·6	86·7	87·0
15	75·4	75·3	74·5	74·1	73·6	73·4	73·0	73·3	75·4	77·0	79·8	82·2	84·5	85·0	85·8
16	74·7	74·5	74·2	74·4	74·0	73·6	73·7	74·6	75·7	78·2	80·4	82·3	84·3	85·6	85·8
17	77·1	75·9	75·1	74·7	74·6	75·6	75·9	77·1	79·2	81·5	84·0	86·4	88·9	88·2	86·4
18	78·2	77·4	77·1	76·1	75·0	74·9	75·7	76·9	79·4	81·2	83·1	83·9	84·5	84·7	84·9
19	76·2	75·7	75·1	74·5	74 3	73·8	74·5	76·6	78·5	79·8	81·3	83·2	83 8	84·0	84·3
20	77·4	77.2	76·3	75·4	75·3	75·1	75·4	76·9	78·2	79·3	81·3	82·8	83·4	83·3	83·9
21	78·2	78·2	77·6	77·2	76·5	76·1	75·9	76·6	78·6	79·9	81·4	82·3	83·0	83 2	83·3
22	76·5	75·6	75·8	75·5	75·4	75·3	75·2	76·4	77·3	78·5	80·4	81·4	82·5	83·0	83·5
23	75·8	75·5	74·8	74·8	75·2	75·6	75·0	76·0	78·0	79·7	81·3	82·4	83·4	83 4	83·4
24	77·4	77·4	76·6	75·9	75·5	75·4	76·1	77·2	77·8	79·6	81·4	82·6	83·0	83 2	83 7
25	78·4	78·2	77·9	77·7	77·1	76·8	76·5	76·8	78·5	80·3	82·9	84·7	85·8	86·8	86·2
26	77·2	77·1	76·4	76·4	75·6	75·7	76·3	77·2	79·3	81·3	83·6	85·0	87·0	88·4	89·2
27	76·8	76·6	75·8	75·6	75·3	75·2	75·0	76·1	77·0	79·5	82·0	83·7	86·0	87·6	88·5
28	75·9	75·5	75·6	75·4	74·6	74·5	74·0	74·8	76·4	78·5	81·0	82·2	84 6	86·4	86·5
29	76·5	76·4	75·7	74·8	73·9	73·4	73·3	73·7	75·4	76·5	79·0	80·6	83·3	84·9	86·2
30	74·2	74·0	74·1	73·8	73·5	73·3	72·8	73·7	75·5	77·4	80·2	82·3	84·7	84 8	86·9
Mean .	76·8	76·5	76·1	75·8	75·4	**75·1**	75·1	76·0	77·8	79·5	81·7	83·2	84·7	85·3	**85·5**
Variation .	—2·7	—3·0	—3·4	—3·7	—4·1	**—4·4**	—4·4	—3·5	—1·7	—0·0	+2·2	+3·7	+5·2	+5·8	**+6·0**

DECEMBER.

1	74·0	73·2	72·9	72·9	73·0	72·8	72·5	73·8	76·3	78·3	81·0	83·2	84·8	85·0	84·7
2	75·5	75·4	75·3	75·7	75·8	75·9	75·8	76·8	78·2	80·0	82·2	85·4	86·3	85·8	85·8
3	79·5	79·4	78·6	78·2	77·8	76·3	76·3	78·4	80·5	82·4	83·8	85·4	87·5	**88·8**	88·4
4	79·8	79·4	79·2	79·0	78·8	78·6	78·3	78·8	79·8	81·6	83·4	84·2	84·8	85·8	85·7
5	80·6	80·4	79;8	78·7	78·7	77·8	77·0	78·0	80·4	81·9	83·6	84·6	84·8	85·4	84·8
6	79·0	78·4	78·3	77·8	77·4	77·0	77·2	77·7	80·0	81·8	83·3	83·6	84·3	84·5	84·9
7	79·1	78·5	78·5	78·5	77·8	76·8	76·4	76·8	78·8	81·6	83·9	84·4	85·1	85·2	84·8
8	76·5	76·2	74·6	74·0	73·4	73·5	73·3	73·8	76·0	78·6	81·0	82·1	82·6	83·7	83·9
9	72·5	72·1	72·3	71·4	69·8	69·4	69·2	70·4	73·1	75·8	78·5	80·4	81·6	82·7	83·5
10	72·1	71·4	70·6	69·8	69·5	70·2	70·5	71·2	73·5	75·6	78·0	79·8	81·8	82·4	82·4
11	72·3	71·8	71·3	71·6	71·6	71·0	71·6	72·4	74·8	76·4	79·3	80·3	81·7	83·3	84·0
12	74·5	73 6	73·2	72·9	72·3	72·5	73·4	73·8	75·3	77·4	79·2	80·8	84·1	84·8	84·6
13	76·2	76·0	75·5	75·0	75·1	74·5	73·2	73·8	76·3	77·8	80·8	83·3	83 8	84·3	83·9
14	75·0	74·8	74·9	74·5	73·8	73·4	73·3	74·2	75·8	77·4	79·8	81·6	82·6	83·2	83·2
15	74·7	73·6	73·5	73·0	72·5	72·3	71·6	72·5	75·3	77·3	79·3	81·3	82·4	82·8	82·7
16	74·2	73·7	73·5	72·6	72·7	72·4	72·6	73·2	74·5	76·5	79·4	80·6	81·2	81·2	81·4
17	74·0	73·7	73·5	72·6	72·6	71·7	71·6	72·6	74·8	77·4	79·3	80·2	81·3	81·4	81·4
18	73·7	73·5	72·8	72·3	72·4	72·3	72·0	72·5	73·6	74·8	76·5	78·4	78·7	79·5	79·5
19	71·4	70 8	69·8	69·4	70·3	70·0	69·8	70·8	72·8	74·8	77·4	79·6	81·5	82·1	82·2
20	75·0	74·5	73·5	73·3	72·5	72·6	71·8	72·6	74·9	77·0	79·6	82·0	85·0	86·2	87·3
21	74·8	74·8	74·3	74·3	73·6	73·4	74·0	74·4	75·7	77·6	80·4	82·4	84·8	86·8	84·0
22	73·8	73·2	71·9	71·6	70·8	69·8	69·8	70·0	73·0	75·0	77·5	80·0	82·6	84·4	83·0
23	72·2	71·8	71·5	71·3	70·4	70·5	70·6	70·7	73·7	75·8	78·5	81·0	84·1	86·5	86·5
24	71·6	70·9	71·4	70·2	68·8	68·2	67·6	67·3	72·5	75·4	78·4	80·6	84·3	86·8	88·2
25	72·5	73·3	72·3	71·6	71·8	71·3	71·0	71·6	73·3	75·0	78·0	80·1	83·4	84·6	84·2
26	74·4	73·8	73·8	72·6	72·6	72·4	72·4	72·4	74·3	76·3	79·0	81·5	82·6	82·8	83·2
27	74·6	74·5	73·4	72·6	72·8	72·8	72·2	73·0	75·0	76·5	79·0	82·0	83·2	82·4	82·4
28	74·0	73·4	72·8	72·4	71·8	71·6	71·2	71·6	74·0	76·4	78·5	80·5	81·4	81·2	81·1
29	72·6	71·6	70·8	70·4	70·6	70·6	70·5	70·9	73·2	74·3	77·2	78·3	78·9	79·8	79·1
30	70·2	69·9	69·4	69·2	68·3	67·5	**67·1**	68·5	71·5	74·0	77·0	78·8	79·2	79·8	80·2
31	70·7	70·3	69·6	68·9	68·1	68·3	67·6	70·0	73·0	75·8	79·0	81·8	86·6	86·8	82·6
Mean .	74·5	74·1	73·6	73·2	72·8	72·5	**72·3**	73·0	75·3	77·3	79·7	81·6	83·1	**83·8**	83·7
Variation .	—2·9	—3·3	—3·8	—4·2	—4·6	—4·9	**—5·1**	—4·4	—2·1	—0·1	+2·3	+4·2	+5·7	**+6·4**	+6·3

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN DEGREES FAHRENHEIT.)

Hours.									Mean.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		Time.	Mag.	Time.	Mag.	
										H. M.		H. M.		
79·8	79·2	78·7	78·3	77·8	77·3	77·1	77·0	77·1	77·9	13 50	82·0	1 15	74·8	1
82·5	81·5	80·4	79·7	79·5	79·3	78·6	78·2	77·9	79·4	12 15	83·2	1 40	76·4	2
83·4	82·4	81·6	81·3	81·3	81·0	80·8	80·5	80·4	80·5	13 0	85·0	6 20	75·7	3
87·1	86·7	85·0	84·3	83·6	83·0	82·3	82·1	82·0	82·9	12 30	89·8	6 5	77·2	4
85·7	84·6	83·5	83·0	83·0	82·7	81·8	82·4	81·4	**83·3**	12 5	88·6	5 45	79·4	5
87·1	85·3	83·7	82·8	82·1	81·6	81·1	79·9	78·9	82·7	13 36	89·8	6 30	78·9	6
87·0	85·7	83·0	81·2	79·8	78·3	77·0	77·3	76·8	80·5	15 0	87·7	23 50	76·0	7
84·0	82·2	80·7	79·5	79·1	77·8	76·9	75·9	75·2	**78·3**	14 5	86·5	6 10	72·0	8
84·6	82·6	81·3	79·8	79·4	78·5	77·3	76·2	74·9	**77·8**	13 0	85·4	6 0	71·8	9
84·8	82·8	81·3	79·8	79·4	78·7	77·6	76·0	75·0	78·2	14 55	86·1	6 30	72·1	10
87·2	84·4	82·0	80·8	79·9	79·1	77·9	76·7	76·3	79·0	15 0	88·0	6 20	72·4	11
85·4	83·4	81·4	80·3	79·3	77·8	76·7	76.3	76·2	78·4	14 55	86·6	6 40	72·3	12
85·8	83·5	81·5	80·3	79·6	78·7	77·4	76·0	75·4	78·5	14 30	87·7	6 35	72·3	13
86·9	84·6	82·3	80·6	79·7	79·0	77·9	76·8	75·8	78·8	15 10	88·0	6 12	**71·7**	14
85·3	83·0	80·9	79·9	79·5	78·9	77·7	76·4	75·8	78·3	14 50	87·0	7 3	72·3	15
85·4	83·3	82·1	81·1	80·5	80·1	79·4	78·2	77·8	78·9	13 55	86·6	5 45	73·0	16
85·8	84·5	82·8	81·4	81·3	80·9	80·7	80·1	79·2	80·7	12 55	**90·3**	4 20	73·8	17
84·4	82·8	81·4	80·3	79·9	79·6	79·3	78·2	77·2	79·8	14 0	86·0	5 10	74·0	18
84·2	82·7	81·3	80·4	79·8	79·4	79·0	77·9	78·0	79·1	14 45	85·2	5 40	73·3	19
83·7	82·7	81·3	80·4	80·2	79·3	78·9	77·8	77·3	79·3	14 40	84·8	5 20	74·9	20
83·3	82·2	80·8	79·8	79·3	78·9	78·5	77·5	76·8	79·4	13 22	84·4	6 18	75·1	21
83·4	82·0	80·7	79·7	79·5	79·4	78·5	77·4	76·6	78·7	14 32	84·1	6 20	74·3	22
82·8	81·3	80·3	79·7	79·5	79·4	79·0	77·8	77·5	78·8	13 35	84·4	2 40	74·1	23
83·6	82·3	80·9	80·2	79·6	78·4	78·1	78·2	78·2	79·3	14 42	84·4	5 22	74·8	24
85·0	83·3	81·8	81·2	80·7	80·3	79·6	78·4	77·3	80·5	13 30	88·0	6 18	75·9	25
89·4	86·8	83·5	82·2	80·9	79·6	78·3	76·8	76·6	80·8	15 15	89·6	4 35	75·2	26
87·2	84·0	82·0	80·8	80·4	79·3	78·6	77·7	76·8	79·9	14 52	89·1	6 10	74·3	27
85·0	83·5	82·2	81·3	80·8	79·5	78·3	76·6	76·3	79·1	14 12	87·7	6 30	73·2	28
84·2	82·6	81·3	80·0	79·6	78·8	77·7	75·8	75·3	78·3	14 34	86·6	6 16	72·7	29
84·3	82·4	80·8	80·3	79·4	78·8	78·0	76·4	76·0	78·1	14 4	86·6	6 4	72·3	30
84·9	83·4	81·7	80·7	80·1	79·4	78·7	77·7	77·2	79·5					Mean.
+5·4	+3·9	+2·2	+1·2	+0·6	—0·1	—0·8	—1·8	—2·3						Variation.

DECEMBER.

84·3	82·7	81·0	80·3	79·8	79·5	78·6	76·9	76·3	78·2	12 42	85·6	6 10	72·0	1
84·8	82·9	81·9	81·3	80·7	80·4	80·3	80·3	80·3	80·1	12 42	87·0	2 35	74·9	2
87·4	85·3	83·7	82·6	81·8	81·5	81·4	80·3	80·2	**81·9**	13 8	**89·0**	6 10	75·4	3
85·6	83·8	82·5	81·4	81·3	80·6	80·7	80·7	79·9	81·4	15 0	86·4	6 40	77·9	4
84·6	83·0	81·6	81·2	80·8	80·3	80·5	80·2	79·4	81·2	13 48	85·6	6 24	76·1	5
84·5	83·1	82·0	81·5	81·4	80·8	80·5	80·1	79·7	80·8	14 28	85·2	5 40	76·8	6
83·9	82·6	81·3	80·5	80·5	79·7	78·1	77·1	76·2	80·3	12 50	85·7	6 50	75·5	7
83·2	81·6	79·8	78·6	78·2	76·7	75·8	74·3	73·4	77·7	14 26	84·1	4 56	72·8	8
82·6	81·8	79·6	78·6	78·2	76·1	74·6	73·1	72·7	75·8	14 32	83·8	5 56	68·7	9
82·4	81·2	79·3	77·7	77·3	76·6	75·5	74·6	73·6	75·7	15 20	82·8	4 10	69·2	10
83·3	81·5	79·7	78·5	77·8	77·5	76·4	75·0	75·3	76·6	14 26	84·7	5 35	70·4	11
84·8	83·8	81·6	80·0	78·7	77·6	77·3	77·2	77·2	77·9	13 18	85·7	4 42	71·9	12
83·6	82·4	80·9	80·6	79·4	78·6	77·5	76·4	75·8	78·5	13 26	84·5	6 40	72·5	13
82·7	81·3	79·8	79·0	78·5	78·2	77·5	76·2	75·0	77·7	13 24	83·5	6 20	72·9	14
82·6	81·4	79·6	78·7	78·4	78·9	76·8	75·3	74·7	77·1	13 55	83·2	6 50	71·4	15
81·5	80·4	78·8	78·3	77·6	77·3	76·8	75·8	75·0	76·7	15 12	81·7	5 22	71·8	16
80·8	79·4	77·8	76·9	76·7	76·4	76·3	75·4	74·5	76·3	13 20	81·7	6 10	70·5	17
79·3	78·2	76·8	76·0	75·5	74·8	74·4	73·4	71·8	75·1	15 8	79·7	23 55	71·5	18
82·3	80·8	79·6	78·5	77·9	76·8	75·3	75·5	76·1	75·6	13 20	82·7	3 30	68·4	19
87·6	85·0	81·6	79·3	78·4	77·6	77·5	76·0	74·4	78·1	15 58	87·8	6 50	71·3	20
83·3	81·4	79·5	78·2	77·6	76·6	75·0	74·8	74·3	77·7	13 45	87·6	5 10	73·0	21
82·7	81·0	79·0	77·3	76·6	75·8	74·4	72·3	71·3	75·7	13 40	85·5	6 10	69·4	22
83·8	83·3	79·5	77·6	76·5	75·3	73·8	73·5	73·2	76·3	13 58	87·4	4 35	70·3	23
86·0	82·5	80·2	78·8	77·6	76·6	76·0	74·6	73·4	76·2	14 52	88·6	7 6	67·0	24
83·9	82·6	80·4	78·8	78·0	76·7	76·0	74·9	74·6	76·7	13 8	85·0	6 48	70·4	25
83·5	82·3	80·5	78·8	78·4	77·9	77·5	76·3	75·4	77·3	15 32	83·8	3 58	71·9	26
82·5	81·2	79·6	78·5	77·8	77·4	76·7	75·5	74·8	77·1	12 15	84·4	6 30	71·8	27
80·8	79·6	78·4	77·0	76·1	75·4	75·1	74·8	74·1	76·0	12 8	81·9	6 50	70·8	28
78·8	78·0	76·5	75·5	75·1	74·8	74·6	72·6	71·5	74·4	12 30	79·6	3 30	70·3	29
79·5	77·6	76·2	75·4	75·1	74·2	73·4	72·5	71·4	**73·6**	14 28	81·1	6 12	**66·8**	30
81·5	79·8	78·5	77·5	77·2	76·5	76·2	75·3	74·3	75·7	13 15	88·8	6 4	67·5	31
83·2	81·7	79·9	78·8	78·2	77·5	76·8	75·8	75·2	77·4					Mean.
+5·8	+4·3	+2·5	+1·4	+0·8	+0·1	—0·6	—1·6	—2·2						Variation.

JANUARY. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.												
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13
1	57	57	57	64	75	71	74	73	69	64	59	61	63
2	63	61	56	54	59	65	67	65	64	63	56	53	52
3	75	68	64	73	75	80	78	75	73	73	71	64	62
4	86	85	80	82	77	82	82	80	80	75	68	64	63
5	76	69	67	67	69	64	66	61	51	51	53	52	51
6	63	59	65	67	69	61	59	56	54	51	51	52	49
7	72	78	79	71	66	62	59	56	67	65	62	55	58
8	81	80	79	73	73	74	80	69	75	70	65	50	45
9	80	77	77	68	70	77	78	79	75	69	65	52	49
10	66	78	83	81	81	80	82	82	77	66	56	53	57
11	79	79	82	81	85	85	82	81	79	75	63	48	**40**
12	83	81	81	81	80	77	76	74	74	69	67	62	63
13	84	86	83	82	82	81	83	84	80	76	73	70	**70**
14	80	82	82	82	82	82	81	78	67	62	56	56	55
15	69	69	67	72	74	77	87	76	69	66	59	56	53
16	58	64	60	61	55	58	59	57	55	41	43	44	43
17	58	59	60	60	65	74	75	65	53	41	44	47	48
18	67	66	71	65	58	70	65	72	65	58	56	48	54
19	76	77	83	68	82	79	74	75	73	72	62	52	49
20	62	62	61	56	62	69	64	53	55	52	50	53	48
21	55	58	65	62	53	52	60	64	64	57	54	46	45
22	73	74	63	68	67	65	65	63	58	55	56	41	52
23	83	80	75	76	77	78	79	77	68	65	63	62	54
24	83	82	83	85	**88**	75	79	79	70	64	59	55	51
25	80	76	77	77	71	69	66	74	71	68	60	50	55
26	66	70	68	62	61	57	55	56	52	57	56	50	55
27	68	72	72	64	59	63	64	69	67	64	62	61	64
28	84	85	80	83	79	76	80	81	70	69	63	60	57
29	68	68	69	78	74	75	75	78	71	64	60	60	63
30	82	83	85	85	87	85	85	80	85	77	75	63	66
31	71	71	72	76	78	79	78	78	71	67	59	52	50
Mean .	72·5	**72·8**	72·5	71·7	72·0	72·3	72·8	71·3	67·8	63·4	59·5	54·6	**54·3**
*Mean Vapour Pressure.	·545	·540	·529	·516	·515	·510	**·505**	·506	·517	·519	·529	·516	·535

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1	75	76	74	74	78	78	76	72	68	67	57	49	46
2	54	53	50	52	64	64	60	56	64	53	42	34	33
3	58	59	54	54	61	62	67	63	60	57	54	53	43
4	68	71	74	71	71	74	75	78	72	66	61	54	49
5	57	67	69	70	67	68	70	70	64	61	54	41	36
6	50	42	38	47	55	53	53	51	47	43	38	35	23
7	59	55	55	54	47	57	61	57	50	49	41	42	36
8	74	78	78	76	75	66	70	70	66	60	54	62	64
9	87	81	74	70	70	76	76	69	68	63	59	60	63
10	82	83	81	81	82	83	83	78	65	47	45	38	34
11	54	55	51	49	47	48	44	41	40	36	35	31	36
12	58	61	65	55	57	61	56	51	47	39	32	24	23
13	64	60	63	61	61	59	55	55	52	49	39	28	20
14	56	62	60	62	62	60	57	57	59	53	39	26	21
15	56	66	63	59	61	62	60	63	54	55	48	31	25
16	68	74	77	64	69	63	60	65	60	59	50	41	40
17	85	86	82	77	72	70	69	63	56	57	47	41	58
18	72	73	71	68	62	63	65	68	60	56	53	46	46
19	80	77	77	81	84	80	83	77	67	57	46	48	53
20	75	74	72	65	63	68	74	69	62	48	45	50	53
21	84	84	81	78	74	70	67	70	64	59	51	48	57
22	78	76	81	76	72	66	55	68	63	57	52	45	49
23	71	63	62	66	70	70	73	70	68	62	62	65	69
24	83	82	80	75	73	78	74	75	73	68	58	66	68
25	82	82	81	72	68	65	73	74	73	65	60	47	49
26	**89**	88	88	83	78	86	85	82	71	65	61	53	55
27	81	85	83	80	74	66	79	79	71	67	58	47	43
28	85	83	83	81	75	68	65	73	65	62	63	62	59
Mean .	70·9	**71·3**	70·3	67·9	67·6	67·3	67·3	66·6	61·7	56·4	50·3	45·3	**45·0**
*Mean Vapour Pressure in inches of mercury.	·537	·534	·520	·497	·488	·479	·476	·486	·487	·481	·470	·457	**·477**

*Computed from mean temperatures and mean relative humidities.

JANUARY. (THE FIGURES REPRESENT PERCENTAGES.)

Hours.											Mean.	* Mean Vapour Pressure.	Date.
13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
												"	
60	59	59	61	64	67	67	67	64	68	72	64·7	·480	1
56	58	60	64	71	74	69	73	73	75	73	63·5	·466	2
56	49	50	59	69	76	76	81	83	78	84	70·5	·554	3
63	62	63	68	74	81	84	77	72	78	74	75·0	·586	4
51	57	57	55	62	67	68	70	64	65	66	61·6	·481	5
49	55	55	59	64	66	66	69	71	66	67	60·1	·463	6
56	58	66	71	73	77	72	74	70	66	69	66·7	·537	7
42	54	55	65	76	81	80	75	70	72	79	69·3	·619	8
50	57	60	66	70	72	70	67	67	64	63	67·6	·643	9
57	62	64	69	73	78	82	82	79	71	70	72·0	·698	10
43	55	58	65	70	75	78	82	85	85	86	72·5	·685	11
60	65	68	73	69	72	77	81	82	82	82	74·1	·668	12
71	74	73	75	76	76	76	75	77	75	75	77·4	·671	13
59	61	60	60	63	64	65	64	62	66	68	68·2	·553	14
53	53	54	64	68	64	66	61	59	60	56	64·7	·478	15
47	48	50	53	58	62	61	71	67	64	62	55·9	·400	16
49	54	54	58	63	70	70	67	70	69	70	60·1	·452	17
57	55	52	53	60	68	70	76	76	78	77	64·0	·485	18
54	54	54	52	59	62	66	68	69	72	67	66·6	·520	19
49	51	56	57	59	61	64	65	61	59	58	57·8	·465	20
49	53	50	56	61	62	63	63	60	57	67	57·3	·453	21
52	56	53	58	62	70	77	82	81	82	83	64·8	·530	22
50	58	62	69	68	73	74	75	76	73	77	70·5	·601	23
64	64	65	70	75	73	68	70	75	81	82	72·5	·634	24
54	54	57	53	55	61	63	68	75	72	62	65·3	·587	25
61	59	60	62	67	70	71	67	64	53	54	60·5	·551	26
64	66	65	67	71	72	72	74	76	80	83	68·3	·604	27
55	61	68	70	67	72	71	69	70	72	67	71·2	·625	28
63	67	68	70	69	71	72	69	73	78	78	70·0	·588	29
64	64	65	63	64	68	71	71	71	72	71	74·3	·588	30
50	55	55	53	62	68	71	69	73	74	75	67·0	·527	31
55·1	58·0	59·2	62.5	66·5	70·1	71·0	71·7	71·5	71·2	71·5	66·9	·555	Mean.
"	"	"	"	"	"	"	"	"	"	"	"		*Mean Vapour Pressure in inches of mercury.
·550	·576	·584	·596	·600	·605	·599	·593	·575	·558	·551	·551		

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47	47	46	51	56	58	54	54	56	57	53	61·2	·445	1
33	36	37	40	39	40	45	51	53	55	59	48·6	·325	2
39	40	38	42	46	52	58	58	63	66	68	54·8	·381	3
48	50	49	49	48	51	55	57	59	59	59	61·3	·455	4
35	43	41	43	45	48	50	51	52	54	49	45·4	·406	5
22	21	39	49	59	54	48	47	52	50	51	44·5	·347	6
36	59	59	66	65	65	56	62	68	65	72	55·8	·477	7
74	75	76	78	81	83	86	83	86	87	88	74·6	·653	8
64	66	68	66	74	73	75	74	75	75	79	71·0	·587	9
35	30	31	32	37	40	46	52	51	52	53	55·9	·435	10
45	45	48	51	53	58	59	54	55	60	59	48·1	·373	11
40	50	58	60	57	56	63	65	63	54	57	52·2	·432	12
24	29	48	58	56	59	56	63	57	65	56	51·5	·463	13
19	33	50	59	66	47	40	39	42	48	46	48·5	·440	14
23	31	45	46	51	64	63	50	49	56	63	51·8	·461	15
56	56	54	59	70	78	80	77	73	68	83	64·3	·559	16
55	47	48	53	62	69	60	59	68	74	74	63·8	·558	17
45	52	53	64	70	71	73	68	74	81	76	63·8	·566	18
50	50	56	63	65	66	63	68	61	68	70	66·3	·590	19
60	62	65	67	70	71	72	74	76	78	77	66·3	·596	20
56	54	57	56	57	60	63	67	63	60	77	64·9	·601	21
55	55	52	48	50	56	62	68	72	71	71	62·4	·603	22
70	65	63	64	68	73	75	79	81	81	81	69·6	·636	23
62	60	65	72	73	76	72	71	71	63	77	71·5	·664	24
51	54	58	63	70	76	81	84	85	86	88	70·3	·664	25
58	58	64	66	72	75	75	77	78	80	80	73·6	·681	26
59	63	60	63	67	73	79	83	85	86	88	72·0	·685	27
57	50	50	53	54	63	68	68	70	72	72	66·7	·616	28
47·1	49·3	52·8	56·5	60·0	62·7	63·5	64·4	65·6	66·8	68·8	61·1	·525	Mean.
"	"	"	"	"	"	"	"	"	"	"	"		*Mean Vapour Pressure in inches of mercury.
·504	·526	·547	·561	·561	·556	·548	·541	·539	·532	·535	·519		

* Computed from mean temperatures and mean relative humidities.

MARCH. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.												
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13
1	76	79	80	81	81	80	81	77	70	66	63	64	64
2	80	80	83	86	86	83	80	81	73	66	63	69	71
3	80	79	80	76	73	70	71	69	65	60	55	58	60
4	63	63	67	64	60	59	52	47	50	57	51	57	62
5	73	69	66	60	58	47	63	61	54	50	42	45	46
6	52	53	61	75	84	89	86	93	77	66	63	75	75
7	78	78	77	79	80	85	80	76	66	60	60	60	60
8	72	74	76	76	77	80	80	83	72	69	65	61	55
9	76	78	79	81	80	81	82	79	78	71	63	60	60
10	68	72	78	79	82	81	76	71	63	60	54	56	55
11	74	76	78	78	70	70	71	66	61	56	46	41	54
12	79	82	85	86	86	81	86	82	79	76	73	68	65
13	79	80	84	86	88	86	88	86	78	69	63	61	60
14	80	78	81	82	83	82	80	80	73	69	67	68	67
15	77	77	80	81	82	78	77	74	59	53	53	57	58
16	84	84	82	83	81	84	79	68	63	59	52	53	57
17	82	84	84	83	86	87	87	84	79	59	45	41	50
18	85	86	85	85	83	83	76	71	62	60	50	64	66
19	69	65	60	65	73	68	61	55	62	49	60	64	59
20	79	80	80	80	84	84	84	80	79	74	72	71	64
21	80	78	79	80	83	85	85	82	78	76	73	70	69
22	79	80	79	78	80	78	78	76	76	68	69	66	68
23	76	77	70	74	81	80	79	76	72	69	52	59	63
24	78	77	68	68	69	68	72	76	69	74	73	74	76
25	89	89	89	90	84	83	85	84	79	80	78	77	75
26	80	85	84	83	84	84	83	78	69	67	65	62	59
27	72	72	70	69	71	73	76	76	74	67	67	63	62
28	73	79	82	84	81	81	82	79	74	69	60	59	58
29	66	68	69	71	69	68	71	66	61	56	53	46	47
30	68	67	70	72	73	72	72	66	56	57	59	63	65
31	81	82	81	82	83	83	81	77	73	65	57	59	64
Mean .	75·7	76·5	77.0	78·0	78·5	77·8	77·5	74·8	69·2	64·4	60·2	61·0	61·7
*Mean Vapour Pressure.	" ·699	" ·697	" ·692	" ·692	" ·685	" ·670	" ·665	" ·672	" ·675	" ·667	" ·663	" ·692	" ·713

APRIL

1	83	83	80	83	84	84	81	78	71	62	69	70	68
2	83	83	83	82	82	82	86	83	75	69	66	64	62
3	82	83	84	84	87	88	88	85	80	76	69	71	68
4	83	84	82	83	84	86	86	85	80	71	61	57	58
5	79	74	77	79	79	77	79	76	65	54	55	57	58
6	82	82	84	84	86	86	85	84	77	73	73	71	69
7	79	82	81	82	82	80	78	74	71	68	66	64	63
8	78	75	75	73	75	78	77	76	67	65	62	60	59
9	72	74	72	73	72	74	74	72	67	64	60	58	60
10	80	77	75	73	77	80	78	75	70	66	62	63	63
11	77	78	79	74	77	80	77	75	73	67	62	61	65
12	70	70	75	79	76	75	74	67	56	49	49	49	52
13	62	64	66	67	63	68	71	68	53	52	54	55	56
14	74	81	80	80	74	74	79	75	70	68	66	64	61
15	84	85	85	84	85	84	83	80	77	75	72	69	68
16	84	84	84	84	86	86	86	84	78	74	67	67	68
17	81	82	82	85	85	85	84	81	77	74	68	65	64
18	75	66	68	81	81	80	79	77	75	74	70	69	67
19	73	79	81	81	82	83	82	79	74	68	57	63	66
20	74	71	72	66	68	69	61	53	54	57	52	53	52
21	80	81	82	81	81	82	82	78	73	69	68	66	64
22	67	68	67	64	64	58	58	58	49	41	40	41	44
23	65	69	69	71	73	71	63	56	52	52	48	56	53
24	73	75	77	78	80	81	80	74	70	67	63	61	60
25	78	80	80	82	82	83	83	79	73	74	71	68	67
26	78	79	80	81	80	83	83	77	73	70	68	67	66
27	81	80	79	78	77	78	82	81	78	74	70	66	64
28	80	78	82	83	83	84	84	79	74	73	70	70	69
29	84	85	86	85	84	83	82	73	68	66	68	70	72
30	83	84	86	87	89	89	88	80	76	77	74	73	71
Mean .	77·5	77·9	78·4	78·9	79·3	79·7	79·1	75·4	69·9	66·3	63·3	62·9	62·6
*Mean Vapour Pressure.	" ·810	" ·804	" ·796	" ·791	" ·787	" ·783	" ·790	" ·791	" ·785	" ·781	" ·780	" ·795	" ·804

*Computed from mean temperatures and mean relative humidities.

MARCH. (THE FIGURES REPRESENT PERCENTAGES).

Hours.											Mean.	*Mean Vapour Pressure in inches of mercury.	Date.
13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
62	64	64	66	68	67	70	74	75	79	88	72·1	·648	1
71	72	71	71	72	72	74	69	67	73	82	74·8	·693	2
58	54	49	50	55	62	63	64	52	53	62	63·3	·628	3
62	60	58	58	54	58	62	67	68	66	68	59·7	·585	4
43	46	47	49	57	58	58	56	53	51	45	**54·0**	·568	5
68	56	54	62	67	74	77	80	80	83	83	72·2	·745	6
63	60	60	61	64	68	70	70	66	64	67	68·8	·678	7
55	57	55	58	63	68	69	72	73	74	73	69·0	·633	8
61	58	58	57	57	60	59	63	67	68	67	68·5	·632	9
58	56	59	54	56	62	63	67	69	63	62	65·2	·624	10
57	56	60	62	62	68	71	74	75	79	79	66·0	·651	11
67	68	68	69	69	73	73	74	77	80	79	76·0	·727	12
61	63	63	64	67	68	70	71	72	76	78	73·4	·680	13
66	65	67	69	72	75	77	79	80	81	79	75·0	·683	14
58	60	61	64	68	71	75	79	79	81	82	70·2	·659	15
62	64	64	63	62	68	73	75	79	81	82	70·9	·667	16
61	59	60	61	68	71	73	75	77	78	80	71·4	·674	17
65	68	67	70	72	76	77	77	75	71	64	72·4	·695	18
59	58	59	61	65	70	72	73	76	80	80	65·1	·665	19
62	60	57	62	63	67	71	73	75	78	79	73·3	·718	20
69	66	65	67	68	72	76	77	78	78	78	75·5	·752	21
68	68	69	71	75	77	79	82	83	82	83	75·5	·802	22
59	59	59	64	65	66	69	75	79	78	78	70·0	·761	23
78	73	61	59	64	71	75	77	83	89	89	73·4	·808	24
76	73	72	74	77	81	83	84	82	82	81	**81·1**	**·876**	25
53	51	53	56	59	63	66	69	69	68	70	69·2	·738	26
61	61	62	64	66	73	74	77	77	77	74	69·9	·740	27
60	56	56	54	54	58	61	63	62	63	64	67·2	·724	28
43	45	45	48	54	60	63	67	67	63	66	59·7	·664	29
63	60	53	51	55	59	62	67	68	74	78	64·6	·712	30
65	66	65	68	70	74	76	79	78	82	83	73·9	·783	31
61·7	60·7	**60·0**	61·5	64·1	68·1	70·4	72·5	72·9	74·0	74·7	69·7	·697	Mean.
"	"	"	"	"	"	"	"	"	"	"	"		
·720	·709	·696	·695	·692	·698	·708	·712	·705	·701	·701	·692		*Mean Vapour Pressure in inches of mercury.

APRIL.

68	70	71	71	75	78	80	82	82	82	82	76·5	·800	1
63	64	66	69	72	80	80	80	81	79	80	75·6	·785	2
66	65	64	67	70	76	80	82	83	84	82	77·7	·823	3
59	57	62	63	65	72	75	79	79	80	79	73·7	·809	4
58	56	58	61	62	67	71	75	78	80	82	69·0	·755	5
70	69	68	67	71	77	78	79	82	83	82	77·6	·833	6
63	63	62	63	67	72	72	74	75	78	79	72·4	·782	7
59	60	59	61	64	67	69	71	70	70	72	68·4	·734	8
61	62	62	65	69	73	75	75	78	77	78	69·5	·741	9
62	62	63	65	66	70	72	73	73	72	75	70·5	·732	10
64	62	58	54	53	59	55	61	65	70	72	67·4	·728	11
45	41	**40**	41	48	51	51	53	56	50	61	57·4	**·653**	12
61	63	60	56	59	62	65	67	72	65	67	62·3	·702	13
66	65	68	70	74	77	77	79	81	83	84	73·7	·830	14
69	68	69	70	72	77	80	81	81	83	83	77·7	·870	15
67	68	69	71	74	77	78	80	80	79	80	77·3	·857	16
61	60	57	53	54	67	71	74	77	76	77	72·5	·841	17
58	61	64	66	68	73	73	72	69	66	66	70·7	·828	18
66	61	63	66	70	77	77	77	75	78	79	73·2	·871	19
49	49	51	51	49	57	63	66	70	67	70	60·2	·759	20
53	50	51	51	51	55	61	63	66	67	66	67·5	·837	21
45	46	48	48	50	52	54	64	65	61	62	**54·7**	·689	22
48	43	44	48	55	64	60	62	67	70	72	59·6	·716	23
58	57	58	62	66	72	76	77	77	77	78	70·7	·794	24
67	65	66	69	72	75	77	78	79	79	79	75·3	·854	25
62	62	62	63	66	70	72	75	76	80	81	73·1	·840	26
62	62	62	64	68	71	76	78	79	79	79	73·7	·836	27
69	68	68	69	73	77	81	83	83	83	84	77·0	·870	28
68	65	65	68	70	73	77	81	82	82	83	75·8	·885	29
70	70	71	73	76	78	80	81	81	82	83	**79·3**	**·941**	30
61·2	**60·5**	61·0	62·2	65·0	69·9	71·9	74·1	75·4	75·4	76·6	71·0	·800	Mean.
"	"	"	"	"	"	"	"	"	"	"	"		
·796	·787	·786	·784	·786	·806	·810	·821	**·822**	·812	·814	·797		*Mean Vapour Pressure.

*Computed from mean temperatures and mean relative humidities.

MAY. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.												
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13
1	81	80	80	81	79	81	81	78	74	72	68	67	68
2	81	79	79	80	79	79	77	75	71	69	67	66	64
3	80	81	81	82	82	82	82	77	73	72	68	67	65
4	80	80	80	81	83	83	83	79	75	72	71	69	71
5	68	73	75	75	76	76	74	75	72	71	70	67	66
6	79	80	78	79	79	78	76	72	73	69	67	66	64
7	82	83	84	84	82	80	78	75	76	72	72	70	67
8	85	85	84	83	83	83	82	79	76	74	71	69	67
9	75	75	76	80	80	81	81	75	75	72	70	66	67
10	80	80	81	81	81	83	81	77	74	71	69	67	67
11	79	79	80	80	79	80	80	77	74	71	69	67	66
12	79	78	79	80	79	79	79	76	74	70	67	66	66
13	75	74	75	77	78	78	78	75	72	70	66	65	64
14	73	74	74	74	75	73	71	70	65	65	61	61	59
15	71	73	73	74	74	75	74	71	68	65	63	62	61
16	72	73	73	74	73	74	74	70	66	65	65	64	63
17	72	74	75	74	75	75	74	72	68	68	67	65	63
18	75	75	77	77	77	78	75	74	72	69	67	66	63
19	73	75	75	75	77	79	77	77	71	65	64	62	60
20	73	73	73	73	72	72	71	70	66	66	62	63	60
21	74	74	75	73	71	72	71	70	65	63	61	59	58
22	75	75	74	74	77	77	76	74	68	64	63	61	60
23	70	70	73	73	74	74	75	72	67	64	62	61	58
24	72	70	68	70	70	74	74	73	70	67	66	63	61
25	77	78	77	76	77	75	75	72	68	69	66	64	63
26	74	75	75	75	75	75	74	71	69	67	61	61	58
27	72	73	75	74	74	75	74	71	67	63	61	59	59
28	74	74	75	75	76	76	76	72	68	66	66	65	62
29	76	75	75	74	74	75	75	73	74	69	66	64	63
30	74	74	74	74	75	75	74	70	69	66	65	64	61
31	74	74	74	74	73	74	73	70	67	67	65	63	61
Mean .	75·6	76·0	76·4	76·6	76·7	77·1	76·3	73·6	70·5	68·2	66·0	64·5	63·1
*Mean Vapour Pressure.	·868	·867	·866	·866	·861	·866	·871	·870	·877	·879	·875	·874	·875

JUNE.

1	73	74	74	71	74	71	72	70	66	63	62	61	60
2	76	76	76	77	76	76	76	73	71	68	66	66	63
3	74	76	76	76	76	76	76	72	71	66	65	63	62
4	74	74	74	75	74	74	75	73	67	67	67	64	62
5	74	75	75	76	76	75	76	77	72	68	64	64	64
6	74	76	75	76	74	75	75	74	69	68	67	65	63
7	76	76	76	76	77	77	77	76	72	70	66	63	62
8	78	74	75	77	77	75	74	70	69	71	68	64	63
9	82	82	81	81	85	89	85	81	76	73	70	65	60
10	86	86	87	87	84	84	85	81	79	77	77	87	87
11	82	85	84	85	85	83	80	77	75	70	69	72	70
12	79	81	81	83	81	85	85	84	81	79	78	76	75
13	79	81	81	83	82	82	83	81	80	78	74	75	72
14	84	83	82	83	81	79	77	77	75	70	71	68	66
15	83	87	83	82	83	83	86	85	83	79	84	88	85
16	92	89	91	94	92	92	92	91	90	88	86	85	85
17	86	84	85	84	85	85	85	83	79	74	72	72	74
18	82	85	84	84	83	84	84	83	79	77	73	73	70
19	81	80	81	81	82	82	81	81	81	77	76	78	76
20	86	85	86	86	87	87	87	83	82	79	74	72	72
21	87	87	87	90	89	90	89	89	89	89	91	90	88
22	91	91	91	90	91	91	89	90	90	91	93	93	92
23	89	92	92	91	93	93	94	93	91	94	90	89	88
24	91	92	92	90	90	89	87	89	89	87	86	87	87
25	91	89	90	86	89	89	91	90	92	91	90	88	84
26	91	91	93	93	93	92	93	94	92	91	91	90	89
27	93	91	88	89	89	89	92	92	93	93	91	93	91
28	90	83	88	88	89	87	87	87	86	85	88	89	89
29	86	85	87	85	84	85	89	87	85	83	81	80	76
30	92	92	91	91	90	89	88	90	89	89	85	84	82
Mean .	83·4	83·4	83·5	83·7	83.7	83·6	83·7	82·4	80·4	78·5	77·2	76·8	75·2
*Mean Vapour Pressure.	·910	·907	·905	·904	·898	·894	·901	·911	·918	·919	·925	·932	·927

* Computed from mean temperatures and mean relative humidities.

MAY. (THE FIGURES REPRESENT PERCENTAGES.)

Hours.											Mean.	*Mean Vapour Pressure in inches of mercury.	Date.
13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
												"	
68	68	69	71	73	76	77	78	78	81	81	75·4	·897	1
67	66	67	71	73	76	76	77	78	79	82	74·1	·896	2
66	68	68	72	74	78	80	79	79	81	81	75·7	·909	3
66	68	68	71	68	67	66	62	58	56	62	71·6	·883	4
64	61	64	68	68	71	76	79	80	80	79	72·0	·879	5
65	67	69	73	76	80	82	81	81	82	81	74·9	·897	6
67	68	69	72	76	80	83	83	82	81	82	**77·0**	.910	7
68	68	69	70	74	78	79	79	75	77	77	76·5	**·922**	8
66	67	71	74	76	76	77	79	81	81	79	75·0	·907	9
66	69	69	71	73	75	77	77	78	79	80	75·3	·908	10
66	67	67	69	72	75	76	77	77	78	79	74·3	·916	11
64	64	65	67	70	72	74	75	75	76	75	72·9	·896	12
64	63	66	67	69	71	74	73	73	73	71	71·3	·865	13
61	61	62	66	68	72	73	73	71	72	72	68·6	·832	14
62	63	63	63	66	68	70	71	70	71	72	68·5	·839	15
63	63	62	64	65	69	72	73	73	73	74	69·0	·842	16
61	62	64	65	67	72	75	75	74	73	75	70·2	·857	17
63	64	63	66	69	72	71	73	75	73	73	71·1	·868	18
60	60	63	64	65	69	70	70	71	74	73	69·6	·850	19
58	60	59	61	63	67	68	70	71	73	74	67·4	·833	20
57	55	55	57	62	67	70	70	71	71	72	66·4	·824	21
61	62	62	61	57	60	61	65	66	66	70	67·0	·831	22
56	57	56	**54**	57	58	61	63	65	65	66	**64·6**	**·822**	23
62	62	64	65	67	69	74	76	78	78	77	69·6	·877	24
62	63	63	64	67	70	71	73	73	74	74	70·5	·883	25
57	59	60	61	62	65	69	70	73	74	74	68·1	·858	26
58	58	60	63	66	68	71	72	73	74	76	68·2	·860	27
62	63	63	66	68	71	72	73	73	74	75	70·2	·888	28
62	62	62	63	65	69	71	72	72	74	75	70·0	·896	29
60	61	63	64	67	69	70	72	72	74	74	69·2	·881	30
60	61	61	62	66	67	69	71	71	74	73	68.5	·880	31
62·6	63·2	64·1	66·0	68·0	70·9	72·7	73·6	73·8	74·5	75·1	71·0	·874	Mean.
"	"	"	"	"	"	"	"	"	"	"	"		*Mean Vapour
·873	·876	·877	**·881**	·871	·868	·873	·876	**·873**	·872	·874	·872		Pressure.

JUNE.

63	62	62	63	67	70	72	73	73	76	76	**68·7**	·885	1
63	63	65	68	71	71	72	73	76	75	74	71·3	·925	2
62	65	62	64	67	70	70	71	72	73	72	69·9	·918	3
62	63	63	66	66	70	71	73	74	73	74	69·8	·905	4
62	62	62	64	66	69	70	71	75	76	76	70·4	·907	5
62	62	63	62	66	68	69	71	71	73	75	69·7	·898	6
63	62	61	66	68	71	72	73	74	74	76	71·0	·927	7
60	61	66	68	73	77	78	79	80	81	83	72·5	·894	8
62	63	67	70	72	74	75	82	88	88	87	76·6	·914	9
83	79	77	76	75	78	79	79	82	81	81	81·5	·906	10
71	69	73	71	71	74	77	78	76	77	76	76·3	·914	11
80	79	77	77	80	80	84	88	88	83	79	81·0	·955	12
73	75	78	76	78	79	79	82	81	83	85	79·2	**·958**	13
66	66	66	72	73	77	76	81	81	80	82	75·7	·939	14
86	86	90	90	91	90	91	88	90	90	89	86·3	·914	15
85	83	79	82	83	84	85	85	84	83	83	86·8	·919	16
74	74	73	74	76	74	75	77	79	80	80	78 5	·899	17
71	74	72	75	77	79	79	79	79	79	79	78·5	·928	18
74	79	76	77	79	80	79	79	81	86	84	79·6	·920	19
74	76	81	79	81	82	81	83	89	89	87	82·0	·915	20
91	89	88	87	87	89	89	89	91	92	92	89·1	·911	21
93	91	91	92	91	87	89	85	85	89	88	90·2	·892	22
88	89	87	87	86	85	91	87	91	93	91	90·2	·901	23
89	89	89	89	88	91	90	91	88	88	91	89·1	·899	24
85	85	85	85	87	86	89	90	89	86	89	88·2	**·875**	25
91	91	91	91	92	91	90	92	91	91	93	**91·5**	·876	26
89	88	86	94	93	92	92	91	89	89	88	90·6	·881	27
91	90	88	84	84	86	86	90	88	85	86	87·3	·892	28
81	84	90	91	92	87	89	89	92	93	92	86·4	·909	29
82	84	87	89	89	90	89	90	89	85	84	87·9	·898	30
75·9	76·1	76·5	77·6	79·0	80·0	80·9	80·0	82·9	83·0	83·1	80·5	·909	Mean.
"	"	"	"	"	"	"	"	"	"	"	"		*Mean Vapour
·930	·926	·916	·915	·916	·907	·909	·915	·913	·908	·909	·913		Pressure.

* Computed from mean temperatures and mean relative humidities.

JULY. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	84	87	87	87	92	89	87	86	87	88	86	84	83	82
2	85	85	83	83	83	83	82	81	82	81	80	79	84	81
3	87	84	87	84	86	86	83	83	83	83	81	82	84	85
4	90	91	92	92	91	88	86	85	87	85	84	85	82	83
5	87	87	89	88	87	87	86	86	85	85	86	83	83	81
6	86	87	86	85	85	82	84	83	82	81	79	77	89	91
7	86	85	86	86	85	85	85	84	83	84	82	83	81	82
8	87	87	83	85	85	85	82	82	83	81	85	81	82	80
9	85	84	91	87	84	87	87	86	85	82	81	78	81	83
10	84	85	84	81	85	85	85	85	83	85	82	83	83	80
11	85	85	85	85	86	85	89	86	83	82	81	80	79	79
12	85	84	85	85	84	84	85	83	85	84	82	81	79	76
13	85	85	85	84	84	84	83	83	83	80	79	77	78	75
14	83	83	83	83	85	85	85	83	79	78	77	75	76	76
15	84	83	83	84	85	83	84	82	82	79	83	81	78	80
16	83	83	83	82	83	83	82	81	84	82	79	80	79	78
17	83	85	83	85	86	86	86	86	90	91	88	85	86	85
18	83	84	87	84	84	84	85	81	83	79	81	78	77	81
19	85	85	83	83	84	83	84	82	86	83	82	80	80	79
20	84	86	82	84	84	86	87	86	82	83	81	81	80	80
21	83	82	84	82	83	83	84	84	81	79	80	79	85	91
22	83	84	84	83	83	81	83	81	81	79	81	78	78	79
23	84	81	81	82	80	82	85	80	81	79	75	75	76	76
24	84	85	84	84	84	84	89	88	84	86	81	80	77	78
25	88	87	86	88	88	88	88	87	83	82	88	85	81	79
26	82	84	88	85	89	90	89	87	85	80	81	79	80	84
27	80	82	81	82	82	81	83	84	80	79	82	78	78	76
28	80	80	80	80	83	84	84	86	89	86	83	87	85	83
29	82	85	83	84	86	86	86	84	83	81	79	79	78	78
30	83	83	83	84	80	80	81	84	79	84	85	83	79	77
31	89	87	86	85	86	84	82	83	82	81	81	79	83	81
Mean . .	84·5	84·7	84·7	84·4	84·8	84·6	84·9	83.9	83·4	82·3	81·8	80·5	80·8	80·6
*Mean Vapour Pressure in inches of mercury.	·875	·871	·871	·868	·867	·865	·870	·874	·886	·886	·901	·901	·907	·908

AUGUST.

1	86	89	86	89	89	89	89	87	83	84	87	85	85	85
2	88	86	82	85	87	88	89	90	88	87	83	83	81	80
3	87	87	87	88	88	87	87	90	87	85	85	85	86	87
4	86	86	89	90	86	84	84	85	84	87	87	83	81	80
5	92	93	93	93	92	93	93	93	91	88	88	86	87	91
6	85	83	84	84	85	83	82	82	82	82	81	79	82	80
7	84	83	83	83	83	82	82	82	82	82	80	81	79	78
8	81	82	82	82	85	84	84	80	78	83	83	83	80	80
9	81	82	86	86	84	85	84	87	87	83	83	81	80	81
10	81	82	82	82	81	81	81	80	82	81	79	79	79	77
11	80	81	84	84	86	85	84	82	83	80	81	80	82	81
12	84	83	83	83	83	85	84	84	83	85	88	86	89	83
13	82	83	84	83	83	80	82	84	84	84	89	83	84	89
14	88	88	87	85	84	86	85	86	80	82	87	83	86	83
15	85	84	84	84	86	87	85	85	86	89	82	80	78	84
16	86	88	87	85	84	83	84	85	84	81	81	82	77	75
17	80	80	80	78	84	84	82	93	85	87	86	84	82	77
18	81	81	84	82	83	82	82	80	78	77	75	75	74	72
19	82	82	82	82	82	82	83	82	79	77	75	74	74	73
20	81	81	82	82	83	82	82	81	81	80	76	77	74	73
21	83	82	82	82	82	83	81	80	79	77	75	74	75	74
22	81	82	83	85	84	85	84	86	81	82	80	76	75	75
23	80	80	80	81	81	81	82	80	80	78	75	77	75	80
24	79	78	79	79	80	81	80	80	79	78	80	79	75	73
25	78	78	78	79	80	81	81	77	74	73	72	71	69	69
26	76	78	76	76	77	78	84	84	86	80	79	76	72	71
27	78	78	78	78	78	77	80	79	80	78	76	76	80	80
28	80	81	82	83	88	86	86	84	80	76	75	75	78	77
29	84	84	80	83	84	84	82	81	78	75	74	73	74	73
30	84	84	85	85	87	86	88	86	83	81	78	76	74	70
31	82	83	82	82	84	85	84	88	87	83	87	86	86	81
Mean . .	82·7	83·0	83·1	83·3	84·0	83·8	83·9	83·6	82·4	81·5	80·9	79·6	79·1	78·5
*Mean Vapour Pressure in inches of mercury.	·826	·826	·822	·821	·825	·821	·827	·835	·848	·855	·863	·860	·868	·862

*Computed from mean temperatures and mean relative humidities.

JULY. (THE FIGURES REPRESENT PERCENTAGES.)

Hours.										Mean.	*Mean Vapour Pressure in inches of Mercury.	Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
											"	
83	81	82	83	84	83	85	84	85	84	85·1	·896	1
82	81	81	81	83	83	83	83	85	87	82·5	·888	2
86	85	88	89	87	88	88	89	91	91	85·8	·888	3
83	82	82	85	82	83	82	85	85	85	85·6	·895	4
81	82	83	84	83	83	83	84	83	83	84·5	·904	5
87	84	86	86	86	85	84	84	85	85	84·5	·889	6
79	79	81	80	81	81	84	82	84	84	83 0	·888	7
78	79	81	82	83	85	85	84	84	85	83·1	·895	8
82	81	79	81	83	84	85	85	87	85	83·9	·900	9
80	83	83	83	83	84	89	88	87	87	84·0	·901	10
77	77	77	77	81	81	81	82	85	85	82·2	**·905**	11
75	76	76	81	84	83	83	85	84	83	82·1	·898	12
74	75	76	77	79	80	81	83	83	83	80·7	·895	13
77	78	80	78	85	88	85	85	83	83	81·4	·894	14
81	79	84	87	85	84	85	85	84	84	82·8	·903	15
81	79	79	77	80	81	85	85	87	86	81·7	·897	16
83	84	88	92	86	87	85	86	89	86	**86·3**	·876	17
81	81	83	82	81	83	85	86	86	86	82·7	·885	18
83	86	84	82	81	81	83	83	83	83	82·8	·883	19
79	79	81	81	80	80	81	82	83	81	82·2	·871	20
84	84	83	81	81	80	81	83	84	86	82·8	·871	21
79	79	80	81	83	82	82	84	84	85	81·5	·878	22
75	74	77	83	84	86	84	85	84	83	**80·5**	·870	23
78	81	81	86	87	86	85	85	85	87	83·7	·884	24
78	78	78	79	84	84	84	83	83	82	83·8	·882	25
80	79	77	78	78	78	79	79	80	80	82·1	·861	26
77	77	77	78	84	82	82	82	82	82	80·5	**·847**	27
79	80	86	87	88	86	85	84	84	83	83·8	·854	28
76	76	77	78	81	80	80	83	86	85	81·5	·872	29
79	78	84	86	88	83	83	85	85	84	82·5	·851	30
81	82	81	85	87	85	88	87	89	91	84·4	·882	31
79·9	80·0	81·1	82·3	83·3	83·2	83·7	84·1	84·8	84·6	83·0	·884	Mean.
"	"	"	"	"	"	"	"	"	"	"		*Mean Vapour Pressure.
·906	·898	·887	·883	·879	·878	·881	·879	·884	·879	·883		

AUGUST.

86	89	91	90	89	89	90	91	92	89	**87·9**	**·884**	1
79	80	80	82	87	88	88	89	89	88	85·3	·877	2
87	87	87	81	84	85	84	84	84	86	86·0	·879	3
80	82	81	79	81	81	82	86	91	89	84·3	**·856**	4
89	88	92	91	91	90	88	88	86	85	**90·0**	·833	5
79	79	81	81	83	83	84	84	85	84	82·4	·856	6
78	78	81	79	79	80	80	81	79	79	80·7	·849	7
84	84	84	85	84	83	85	84	82	82	82·7	·837	8
79	79	81	79	80	80	81	82	82	82	82·7	·840	9
79	79	79	81	81	82	82	82	81	82	80·6	·835	10
80	81	85	85	82	82	82	82	82	83	82·4	·839	11
84	84	83	82	82	82	85	84	83	82	83·9	·838	12
83	85	89	86	85	86	86	86	85	85	84·6	·848	13
83	83	86	86	85	86	86	86	86	85	85·1	·844	14
79	77	79	80	83	83	87	86	85	84	83·4	·844	15
77	78	75	75	77	79	80	79	79	81	80·9	·838	16
77	75	83	82	77	79	81	83	82	81	81·3	·823	17
72	72	73	75	78	79	79	79	81	80	78·1	·817	18
74	75	73	80	79	79	78	80	80	81	78·7	·839	19
77	82	79	78	81	79	78	80	81	82	79·7	·836	20
74	73	71	75	76	80	79	83	80	80	78·3	·838	21
73	71	75	77	76	77	79	80	80	80	79·5	·831	22
73	70	71	73	75	75	77	78	79	80	77·5	·829	23
71	72	69	72	74	75	76	76	76	78	76·6	·806	24
69	68	68	71	71	73	74	74	75	75	**74·1**	·790	25
69	69	70	71	74	76	76	77	76	76	76·1	**·788**	26
71	69	69	71	73	74	76	78	80	80	76·5	·802	27
71	73	76	77	78	78	80	80	80	81	79·4	·814	28
70	71	73	76	77	79	81	82	83	82	78·5	·834	29
69	70	68	70	74	76	77	78	79	82	78·7	·847	30
81	78	71	73	74	77	80	79	82	83	81·6	·842	31
77·3	77·5	78·2	78·8	79·7	80·5	81·3	82·0	82·1	82·2	81·2	·837	Mean.
"	"	"	"	"	"	"	"	"	"	"		*Mean Vapour Pressure.
·854	·851	·839	·829	·820	·823	·823	·830	·828	·826	·837		

*Computed from mean temperatures and mean relative humidities.

SEPTEMBER. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	84	85	86	86	85	86	86	85	83	81	80	75	73	72
2	81	83	82	82	84	84	84	81	78	75	75	76	73	72
3	81	81	82	84	85	86	85	85	83	78	76	75	72	73
4	78	79	80	80	79	81	83	80	82	78	74	72	70	68
5	80	80	80	79	80	75	80	84	83	82	78	78	70	69
6	77	77	78	81	91	89	89	89	90	89	85	81	78	81
7	92	93	93	93	93	92	92	91	91	88	87	85	85	83
8	89	89	90	90	90	89	90	89	87	84	83	81	80	81
9	90	89	89	87	90	89	89	89	89	90	90	91	92	93
10	94	94	94	97	96	95	95	96	95	96	96	96	94	96
11	98	97	98	97	97	97	97	97	96	96	97	94	91	90
12	91	91	93	93	92	92	93	93	91	91	93	93	93	94
13	96	94	94	93	93	93	93	94	93	94	93	96	96	95
14	94	94	94	94	93	98	95	94	94	93	93	92	93	95
15	93	92	91	92	91	91	90	89	91	89	88	87	86	88
16	93	92	91	91	90	89	89	89	87	86	83	81	79	79
17	87	86	86	86	87	86	88	87	84	82	81	80	78	77
18	86	86	87	86	84	84	86	86	84	84	82	81	79	79
19	86	85	85	90	91	93	92	92	86	92	89	86	82	83
20	88	90	90	88	89	90	90	91	89	88	89	78	79	79
21	90	89	86	89	87	88	87	86	88	86	84	81	81	79
22	79	78	78	77	79	84	85	84	83	75	76	75	74	71
23	83	84	84	86	86	87	86	84	81	81	78	74	74	72
24	78	78	80	81	84	85	85	85	84	81	80	80	78	74
25	83	84	86	86	86	86	86	85	85	79	78	74	73	70
26	85	87	87	88	87	88	88	87	83	80	78	79	75	75
27	84	86	88	88	87	88	87	85	81	75	75	76	76	76
28	89	90	90	91	91	93	92	91	86	83	80	79	80	79
29	89	89	90	91	92	93	93	91	89	85	84	83	80	76
30	91	91	91	92	93	93	93	91	91	87	81	80	80	78
Mean . .	87·0	87·4	87·4	87·9	88·7	88·8	**88·9**	88·3	86·9	84·9	83·5	82·0	80·5	79·9
*Mean Vapour Pressure	·869	·870	·864	·864	·866	·861	·868	·882	·897	·897	·902	·900	·898	·900

OCTOBER.

1	86	86	87	87	87	88	88	85	83	81	77	75	73	74
2	86	86	88	89	91	91	90	87	81	78	78	77	75	73
3	87	87	87	87	89	90	89	88	87	85	83	79	77	75
4	84	84	85	86	86	86	86	85	80	77	76	75	76	74
5	82	86	86	87	88	91	90	86	80	76	77	74	74	82
6	81	82	84	84	82	81	84	79	78	78	77	75	74	73
7	90	90	89	89	87	88	89	86	84	82	81	81	77	77
8	87	89	89	89	89	89	89	87	85	82	77	75	67	59
9	89	91	89	88	88	87	87	84	79	76	73	68	58	60
10	89	87	87	87	87	87	89	87	87	86	84	81	80	78
11	90	91	91	90	91	91	90	90	87	82	80	76	68	66
12	86	86	89	89	89	89	89	89	84	80	75	72	74	72
13	87	88	88	88	89	89	90	88	86	82	73	67	68	69
14	79	84	87	85	85	87	88	83	79	76	67	62	59	58
15	83	82	86	87	84	88	88	86	79	76	73	69	52	49
16	83	83	84	84	84	85	86	85	81	77	67	60	57	58
17	74	84	83	83	83	85	87	84	80	79	75	63	56	54
18	81	81	83	83	84	85	84	82	80	76	70	69	59	60
19	84	86	87	87	87	83	87	94	82	77	69	70	67	66
20	87	86	86	83	84	83	77	78	75	74	69	67	65	64
21	85	85	85	86	86	83	85	81	76	72	67	63	64	63
22	86	88	87	87	87	88	87	85	79	79	75	70	68	69
23	83	78	82	82	80	81	81	78	77	73	71	72	74	75
24	66	58	65	67	61	69	72	66	63	64	60	53	58	61
25	57	56	61	73	76	72	76	76	74	70	63	56	51	49
26	68	68	69	72	76	78	82	80	77	57	64	59	**48**	55
27	70	72	68	69	72	71	71	71	66	64	61	61	61	62
28	81	81	85	84	84	81	79	79	76	72	66	64	59	61
29	84	84	85	84	79	86	85	85	80	77	81	81	83	81
30	91	91	92	92	**93**	91	91	91	89	87	85	83	82	81
31	84	85	85	86	86	86	86	91	92	91	86	80	79	78
Mean . .	82·3	82·7	83·8	84·3	84·3	84·8	**85·2**	83·4	80·2	77·0	73·5	70·2	67·2	**66·6**
*Mean Vapour Pressure	·866	·865	·871	·867	·856	·853	·859	·872	·880	·885	·881	·874	·859	·864

*Computed from mean temperatures and mean relative humidities.

SEPTEMBER. (THE FIGURES REPRESENT PERCENTAGES.)

Hours.										Mean.	*Mean Vapour Pressure in inches of mercury.	Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
											"	
70	70	70	69	71	69	70	71	72	75	77·3	·829	1
76	75	78	78	79	79	79	79	81	81	79·0	·876	2
72	71	72	73	76	75	80	80	81	82	78·7	·881	3
68	67	68	71	74	75	77	78	80	80	75·9	·843	4
66	66	70	71	73	74	75	76	76	75	75·8	·841	5
87	89	87	89	93	92	92	92	93	93	86·7	·866	6
82	80	87	82	84	85	85	90	89	88	87·5	·880	7
90	85	82	83	83	89	90	90	90	91	87·1	·867	8
94	93	91	92	92	92	90	91	92	93	90·7	·848	9
92	95	94	94	93	92	95	95	96	94	94·7	·851	10
90	88	89	90	89	83	88	89	91	91	93·1	·857	11
93	92	93	92	93	93	93	94	95	95	92·7	·881	12
94	94	95	93	93	94	94	94	94	94	94·0	·870	13
92	92	95	95	94	93	93	92	91	91	93·5	·910	14
89	89	87	87	89	89	90	88	91	92	89·5	·912	15
79	77	79	81	84	85	88	89	88	86	85·6	·896	16
75	76	79	80	81	83	85	86	86	87	83·0	·882	17
77	77	79	81	83	83	84	85	85	84	83·0	·891	18
80	80	79	80	82	87	87	86	87	87	86·1	·877	19
77	75	75	77	81	82	83	82	82	83	84·0	·878	20
76	74	74	76	78	77	78	78	78	78	82·0	·853	21
70	69	69	73	74	75	76	77	78	77	76·5	·788	22
69	69	70	72	74	76	78	78	79	77	78·4	·809	23
70	68	69	71	74	77	79	79	81	82	78·5	·815	24
70	71	71	71	74	80	81	81	83	83	79·4	·846	25
73	71	71	74	75	77	78	78	81	83	80·3	·875	26
76	76	77	81	83	85	87	87	87	88	82·5	·915	27
78	78	80	80	83	85	88	89	87	88	85·4	·965	28
71	75	76	82	85	86	87	88	90	92	85·7	1·004	29
76	75	76	76	78	80	81	83	84	84	84·4	·972	30
79·1	78·6	78·4	80·5	82·3	83·2	84·4	84·8	85·6	85·8	84·4	·876	Mean.
"	"	"	"	"	"	"	"	"	"	"		
·888	·877	·862	·867	·863	·861	·865	·867	·866	·866	·876		*Mean Vapour Pressure.

OCTOBER.

73	73	76	78	79	81	82	83	85	86	81·4	·908	1
71	72	75	79	81	82	84	86	86	86	82·2	·882	2
72	73	75	77	80	81	80	80	82	83	82·2	·888	3
71	71	71	74	75	77	77	78	80	80	78·9	·841	4
67	68	70	72	75	77	79	80	81	81	79·1	·841	5
75	74	76	78	86	87	87	88	89	89	80·9	·838	6
77	77	77	67	74	76	79	85	84	86	82·2	·838	7
62	67	72	77	79	79	85	85	85	86	80·4	·903	8
67	71	72	77	76	79	81	83	85	87	79·0	·890	9
74	73	72	76	78	78	89	90	90	89	83·5	·919	10
66	67	69	75	84	87	85	87	85	84	82·2	·914	11
73	73	73	75	79	83	84	86	87	87	81·8	·928	12
68	69	71	75	76	79	79	78	84	81	79·7	·948	13
58	56	63	69	72	76	80	79	80	80	74·7	·900	14
50	53	55	62	67	70	76	80	80	83	73·2	·877	15
62	62	67	72	73	75	76	77	75	73	74·4	·888	16
53	53	63	68	74	75	77	79	79	81	73·8	·867	17
63	63	66	72	77	78	80	81	82	82	75·9	·900	18
64	64	65	67	73	76	79	79	82	85	77·1	·938	19
66	68	68	70	74	75	76	78	81	84	75·8	·908	20
63	64	66	70	74	76	79	82	83	85	75·9	·903	21
67	57	63	63	67	68	73	79	82	85	76·6	·877	22
73	72	73	72	75	72	73	73	70	74	75 6	·846	23
65	68	71	74	76	75	70	74	78	67	66·7	·786	24
58	63	67	71	76	75	70	61	72	72	66·5	·776	25
55	54	64	73	69	75	69	70	69	66	67·4	·782	26
66	70	74	74	75	73	75	80	80	81	79·3	·815	27
61	60	62	85	89	87	87	84	84	83	76·4	·853	28
83	86	87	88	90	91	91	91	90	90	85·1	·867	29
81	81	83	81	82	82	84	84	85	84	86·1	·877	30
76	73	75	78	80	82	82	82	82	81	82 7	·794	31
67·1	67·6	70·4	73·8	76·9	78·3	79·6	80·7	81·8	82·0	77·7	·871	Mean.
"	"	"	"	"	"	"	"	"	"	"		
·870	·868	·874	·871	·869	·869	·868	·870	·867	·866	·869		*Mean Vapour Pressure.

* Computed from mean temperatures and mean relative humidities.

NOVEMBER. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	81	81	82	84	81	80	80	82	80	78	76	76	74	72
2	86	86	86	86	85	83	84	83	80	79	74	75	75	75
3	83	83	84	84	84	84	84	82	79	79	78	77	75	72
4	86	85	85	88	86	86	87	85	80	77	74	67	61	60
5	73	73	77	76	74	73	74	70	69	67	60	57	63	62
6	82	82	79	79	77	78	74	68	62	60	57	56	50	47
7	83	84	84	84	81	70	57	51	50	48	46	44	44	44
8	71	75	86	75	78	76	68	63	55	54	53	48	44	40
9	69	73	78	78	82	80	80	79	72	68	62	52	45	46
10	72	80	78	79	79	81	78	78	73	70	64	59	50	47
11	79	86	86	83	83	81	83	80	73	67	58	56	56	49
12	72	75	72	72	77	80	78	75	69	65	58	49	43	40
13	76	78	78	74	77	81	81	80	74	65	55	58	51	43
14	78	81	79	80	82	82	78	76	68	57	53	44	46	36
15	80	79	79	81	84	83	82	72	62	59	53	49	41	40
16	73	74	75	75	74	73	74	71	68	61	57	51	53	49
17	75	65	60	62	67	71	76	75	69	62	54	50	47	53
18	80	80	82	81	79	76	79	76	71	69	65	60	60	61
19	73	77	79	76	78	76	80	79	79	78	68	63	70	68
20	84	83	84	86	87	87	86	86	80	75	69	65	68	69
21	84	86	85	86	86	87	86	86	81	79	74	74	72	71
22	89	90	89	90	90	89	92	89	87	82	73	69	68	65
23	81	81	80	80	86	87	88	85	80	77	70	62	62	64
24	84	83	85	85	81	83	87	85	83	77	72	72	73	71
25	83	82	85	83	85	86	86	84	74	65	52	49	42	44
26	80	80	81	79	78	66	56	53	49	47	48	47	33	35
27	67	67	68	68	68	67	67	64	62	51	50	44	38	34
28	74	72	73	72	71	72	68	68	64	59	55	53	44	38
29	68	73	73	72	72	67	64	63	60	57	53	55	42	38
30	65	70	73	73	74	75	72	68	64	60	53	44	39	45
Mean . .	77·7	78·8	79·2	79·0	79·5	78·7	77·6	75·2	70·6	66·4	61·1	57·5	54·3	52·6
*Mean Vapour Pressure.	·715	·718	·712	·703	·698	·684	·674	·674	·671	·668	·660	·652	·646	·638

DECEMBER.

1	74	73	76	78	80	78	74	70	66	61	55	45	44	48
2	77	77	70	75	73	72	75	73	69	65	62	54	56	61
3	72	70	64	67	69	67	64	72	67	65	58	53	41	41
4	74	76	79	77	80	77	79	76	71	71	64	64	63	64
5	81	82	82	84	74	73	75	74	77	75	72	69	67	65
6	83	82	83	84	86	85	84	81	77	75	70	68	68	71
7	72	78	75	74	74	72	72	69	62	57	55	57	54	60
8	56	52	56	64	62	66	70	57	46	49	46	45	47	45
9	58	67	68	69	62	56	63	55	50	50	43	44	43	44
10	61	56	57	57	60	63	74	69	67	62	54	53	49	49
11	73	78	78	81	80	75	79	79	72	63	66	62	52	46
12	82	84	84	83	78	76	81	76	77	73	69	64	51	50
13	82	80	81	80	79	81	79	76	79	75	70	62	58	57
14	85	87	88	87	87	87	85	83	80	77	71	62	58	58
15	80	83	84	84	85	82	76	72	72	70	63	62	54	56
16	82	83	82	84	84	78	79	77	73	73	56	61	65	69
17	69	73	81	82	81	83	84	82	74	61	58	58	59	59
18	81	85	85	85	88	85	84	85	84	80	73	69	62	54
19	75	76	70	68	68	68	73	74	71	67	62	58	53	54
20	76	71	71	70	71	75	76	77	70	63	57	54	50	47
21	70	69	68	68	66	61	50	47	52	53	51	39	32	32
22	67	66	67	63	65	68	63	63	62	59	46	35	27	30
23	67	70	72	71	64	63	60	59	52	52	46	41	33	28
24	71	73	72	73	72	72	61	57	61	54	43	39	34	31
25	77	79	74	73	75	74	73	73	70	62	54	44	33	37
26	72	71	71	72	65	68	77	74	68	67	65	56	52	54
27	75	77	70	67	74	64	57	63	62	60	56	52	51	54
28	63	68	71	71	75	78	80	77	55	42	45	47	48	48
29	79	76	70	64	62	69	72	68	73	70	65	64	63	62
30	72	61	54	50	53	49	53	53	46	48	48	48	50	48
31	59	69	58	54	54	60	57	53	50	49	45	40	33	43
Mean . .	73·1	73.6	72·9	72·9	72·5	71·8	71·8	69·8	66·3	62·8	57·8	53·8	50·0	50·5
*Mean Vapour Pressure.	·623	·619	·603	·595	·584	·572	·568	·565	·580	·587	·579	·578	·565	·583

*Computed from mean temperatures and mean relative humidities.

NOVEMBER. (THE FIGURES REPRESENT PERCENTAGES.)

Hours.										Mean.	*Mean Vapour Pressure in inches of mercury.	Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
											"	
75	76	74	74	73	78	80	81	81	82	78.4	·748	1
73	72	73	74	76	76	78	80	80	80	79·1	·793	2
73	72	75	79	78	82	84	86	86	85	80·3	·834	3
71	66	63	63	64	68	72	75	74	72	74·8	·840	4
64	68	72	74	75	80	80	31	79	82	71·8	·812	5
53	59	63	70	74	75	77	79	80	78	69·1	·771	6
42	43	48	58	69	69	72	62	68	71	61·3	·637	7
40	45	50	54	57	57	61	59	62	68	59·5	·575	8
51	51	54	55	62	64	67	69	67	66	65·4	·622	9
46	51	61	65	68	69	72	78	73	74	68·5	.660	10
33	43	62	68	70	75	79	76	71	68	69·4	·686	11
41	43	45	52	61	64	68	74	73	74	63·3	·614	12
37	51	54	63	68	71	76	74	75	78	67·4	·656	13
34	36	50	60	66	67	72	76	75	75	64·6	·635	14
38	40	47	57	64	64	71	71	67	68	63·8	·617	15
42	48	55	64	68	70	71	66	64	75	64·6	·637	16
60	60	66	74	74	74	74	77	81	83	67·0	·701	17
62	64	69	73	75	78	80	80	77	73	72·9	·740	18
68	66	67	74	78	80	80	82	78	82	75·0	·744	19
68	69	71	74	77	79	82	84	84	82	78·3	·782	20
71	65	67	71	76	78	81	83	86	88	79.3	·795	21
62	62	64	66	68	71	72	77	82	82	77.8	·762	22
65	67	69	70	75	77	78	80	83	83	76·3	·750	23
69	68	69	72	75	77	79	80	82	83	78·1	·780	24
51	52	56	60	67	70	75	78	75	74	69·1	·718	25
31	29	47	60	64	68	67	65	69	68	58·3	·612	26
30	42	55	63	68	68	68	67	69	69	58.9	·600	27
42	49	55	59	61	64	62	63	66	67	61·3	·609	28
37	43	47	52	54	58	65	65	64	68	58·7	·568	29
47	49	55	60	32	67	70	70	67	65	62·0	·595	30
52·5	55·0	60·1	65·3	68·9	71·3	73·8	74·6	74·6	75·4	69·2	·696	Mean.
"	"	"	"	"	"	"	"	"	"	"		
·641	·660	·686	·705	·721	·730	·738	·730	·707	·703	·689		*Mean Vapour Pressure.

DECEMBER.

53	55	62	68	66	69	71	72	69	74	65·9	·635	1
61	64	67	67	72	68	61	65	72	72	67·8	·695	2
45	54	58	68	75	73	70	70	74	74	63·8	·694	3
65	67	71	75	79	78	83	84	80	86	74·3	·795	4
66	65	73	77	78	77	78	78	80	83	75·2	·799	5
70	73	75	77	78	78	80	77	75	69	77·0	·808	6
61	61	62	62	58	53	50	49	50	55	62·2	·642	7
47	48	51	56	62	62	61	61	62	59	55·4	·525	8
46	51	53	59	61	61	61	58	61	59	56·1	·499	9
51	53	59	66	71	73	75	64	72	74	62·0	·550	10
51	59	66	70	75	75	75	77	73	78	70·1	·641	11
54	59	60	68	72	76	80	80	83	83	72·6	·693	12
62	64	68	73	70	74	77	79	79	80	73·5	·755	13
60	58	61	63	67	70	70	69	68	72	73·0	.691	14
60	61	63	65	68	67	59	63	64	73	69·4	·645	15
61	59	62	63	61	64	64	67	72	66	70·2	·643	16
63	70	70	73	73	73	74	73	76	81	72·1	·643	17
51	47	48	51	56	63	63	69	68	75	70·5	·613	18
54	55	61	66	72	73	76	73	75	78	67·5	·597	19
39	37	58	67	66	67	68	65	65	66	63·6	·610	20
49	55	59	66	67	66	67	74	68	68	58·2	·558	21
41	42	48	56	63	63	62	66	67	70	56·6	·502	22
42	47	53	62	69	73	63	60	69	65	57·5	·520	23
28	49	60	60	70	72	71	65	72	74	59·7	·538	24
42	40	49	58	67	72	72	68	62	67	62·3	·571	25
55	55	61	70	76	75	69	66	66	69	66·3	·620	26
55	53	54	55	60	61	59	63	56	57	60·6	·563	27
50	52	58	63	70	74	77	76	73	76	64·0	·573	28
59	55	51	56	61	62	64	66	66	70	65·3	·554	29
50	51	54	55	56	59	59	63	60	59	54·1	·447	30
59	61	65	66	67	65	67	64	68	62	56·6	·502	31
53·2	55·5	60·0	64·5	67·9	68·9	68·6	68·5	69·2	70·8	65·3	·616	Mean.
"	"	"	"	"	"	"	"	"	"	"		
·611	·628	·648	·658	·667	·663	·645	·630	·616	·617	·608		*Mean Vapour Pressure.

* Computed from mean temperatures and mean relative humidities.

Notation :—H=High clouds (Ci, Ci-S, Ci-Cu) ; M=Medium clouds

JANUARY.

Date.	Cloud Forms (coming from)									Cloud Amount (All Forms).					
	8½h.			12½h.			16½h.								
	H.	M.	L.	H.	M.	L.	H.	M.	L.	6h.	8h.	10h.	12½h.	16½h.	22h.
1	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
2	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
3	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
4	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
5	..	..	..	SW	..	..	W	..	..	0	1	1	1	3	1
6	W	..	..	..	..	..	W	..	..	2	4	0	0	1	0
7	..	..	..	..	..	..	SW	..	..	0	0	0	0	4	2
8	..	..	..	..	..	..	..	..	..	0	1	0	0	0	0
9	..	..	..	..	S	..	..	..	W	0	1	1	3	1	5
10	..	..	..	..	..	..	SW	..	..	0	0	0	0	1	1
11	W	..	..	W	..	WNW	SW	..	W	3	3	4	4	4	1
12	..	WNW	..	..	..	WSW	..	..	W	2	2	3	7	8	8
13	..	..	SW	..	..	SW	SW	..	..	7	8	4	1	1	1
14	..	..	NW	WSW	..	..	NW	..	..	1	3	2	1	2	1
15	SW	..	..	W	..	..	..	NW	NW	1	2	2	4	7	7
16	SW	..	..	..	W	..	..	W	..	2	1	1	2	5	0
17	W	..	..	W	..	..	SW	..	..	0	1	1	1	3	1
18	W	..	..	W	..	..	W	..	..	1	2	2	3	1	1
19	W	..	..	..	..	..	..	..	..	1	1	1	0	0	0
20	W	..	..	SW	WSW	W	W	W	..	2	4	4	6	3	0
21	..	..	..	..	..	..	..	W	..	0	0	0	0	1	0
22	..	..	..	..	W	..	W	W	..	1	1	0	2	2	0
23	..	SW	..	..	W	..	..	..	..	1	1	1	1	0	0
24	SW	..	..	..	..	..	W	..	..	0	2	1	0	2	0
25	W	..	..	WSW	..	..	SW	..	..	3	2	1	2	1	0
26	..	..	W	W	..	..	..	..	..	2	4	3	1	0	0
27	..	..	SW	..	..	NE	..	..	..	0	1	1	1	0	0
28	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
29	..	..	SW	..	SSW	..	..	SW	..	2	3	1	1	1	0
30	..	..	..	..	..	NW	..	..	S	1	1	0	1	5	0
31	..	..	W	WSW	..	..	SW	..	..	6	7	7	2	1	0
Mean cloud amount.										1·2	1·8	1·3	1·4	1·8	1·9

MARCH.

1	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
2	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
3	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
4	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
5	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
6	..	..	SE	..	..	..	..	..	..	2	3	0	0	0	0
7	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
8	..	..	..	..	..	..	..	..	..	1	0	0	0	0	0
9	..	..	..	..	..	..	..	..	..	1	0	0	0	0	0
10	..	..	..	..	..	..	S	..	..	3	1	0	0	1	0
11	WNW	..	..	WNW	..	..	SW	..	..	1	3	2	2	1	0
12	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
13	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
14	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
15	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
16	..	..	..	..	..	..	SW	..	..	0	0	0	0	1	0
17	..	..	..	..	..	..	..	..	..	1	0	0	0	0	0
18	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
19	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
20	W	..	..	W	..	..	..	W	..	3	1	0	1	1	0
21	SW	..	..	SW	..	..	SW	..	..	2	1	0	1	1	3
22	..	..	W	..	SW	..	..	NW	..	9	9	1	1	1	1
23	..	..	W	..	..	..	..	..	..	6	4	0	0	0	0
24	..	..	E	..	SW	..	..	W	..	5	2	1	1	1	0
25	SE	..	..	..	..	SW	..	..	..	1	1	1	1	0	0
26	W	..	..	..	..	..	W	..	..	1	1	1	0	1	0
27	SW	..	..	..	..	..	..	..	..	0	1	0	0	0	0
28	SW	..	..	WSW	SW	..	SW	..	..	2	3	2	3	1	0
29	..	..	..	..	..	..	WNW	NW	..	0	0	0	0	4	0
30	..	..	..	..	..	..	..	..	..	2	1	0	0	0	0
31	NW	..	..	..	..	..	NW	..	..	1	1	0	0	1	0
Mean cloud amount.										1·3	1·0	0·3	0·3	0·5	0·1

(A-Cu, A-S) ; L=Low clouds (Cu, Cu-N, S, N). ... No cloud.

FEBRUARY.

Cloud Forms (coming from)									Cloud Amount (All Forms).						Date.
8½h.			12½h.			16½h.									
H.	M.	L.	H.	M.	L.	H.	M.	L.	6h.	8h.	10h.	12½h.	16½h.	22h.	
..	..	W	..	..	W	SW	..	..	4	1	1	2	1	0	1
SW	..	..	..	..	..	W	..	..	1	1	1	0	2	0	2
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	3
..	..	..	..	..	NNW	..	..	W	0	1	1	1	1	2	4
..	..	..	..	..	W	..	..	..	0	0	0	1	0	0	5
W	..	..	W	..	..	SW	..	..	0	1	3	4	5	2	6
..	..	..	..	..	..	..	..	..	1	0	0	0	0	0	7
..	SW	..	..	..	SW	..	..	SW	6	1	0	1	1	0	8
..	..	S	..	..	W	..	WSW	W	1	5	2	6	5	0	9
..	..	..	..	..	..	..	..	..	1	0	0	0	0	0	10
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	11
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	12
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	13
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	14
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	15
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	16
W	..	..	..	..	..	..	..	..	0	1	1	0	0	0	17
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	18
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	19
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	20
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	21
W	..	..	..	..	..	..	..	..	0	0	0	0	0	0	22
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	23
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	24
SE	..	..	..	..	..	..	..	..	1	1	1	0	0	0	25
..	..	..	..	..	..	W	..	..	0	0	0	0	1	0	26
W	WSW	..	..	..	..	..	..	..	1	1	1	4	0	0	27
..	..	..	..	..	..	..	..	..	2	0	0	0	0	0	28
									0·6	0·5	0·4	0·7	0·6	0·1	Mean cloud amount.

APRIL.

E	..	..	SW	..	..	W	..	..	0	1	2	2	4	2	1
NW	..	..	..	..	..	W	..	..	8	1	2	0	3	3	2
..	..	..	..	..	..	..	..	..	1	1	0	0	0	2	3
..	..	..	..	..	..	..	..	..	1	0	0	0	0	0	4
SW	..	..	..	SW	..	..	W	..	3	1	1	1	2	0	5
..	..	W	..	..	..	..	..	..	2	2	1	0	0	6	6
..	..	W	..	..	..	..	..	..	1	1	2	0	0	0	7
..	..	SW	..	..	W	..	..	NW	5	3	1	2	2	3	8
..	..	NW	..	..	..	..	..	..	6	2	2	0	0	1	9
..	..	NNW	..	..	..	..	..	..	2	2	1	0	0	0	10
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	11
..	..	..	..	..	..	..	..	..	1	0	0	0	0	0	12
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	13
..	..	..	..	..	..	..	..	..	1	0	0	0	0	0	14
SW	..	S	..	NW	..	..	..	..	4	2	1	2	0	1	15
SW	..	..	..	..	W	SW	..	..	1	1	0	1	1	1	16
..	..	SW	SE	NW	..	..	..	..	5	3	1	2	0	2	17
..	..	ESE	NW	..	..	NW	..	..	3	4	1	1	2	2	18
..	W	S	W	..	..	SW	..	..	7	7	5	1	3	7	19
..	..	..	..	..	..	S	..	..	1	0	0	0	1	0	20
SW	..	S	SSW	..	..	SW	..	..	1	3	3	4	3	0	21
SW	..	..	..	..	..	..	..	..	2	1	1	0	0	0	22
..	..	..	..	..	..	..	..	..	1	0	0	0	0	0	23
..	..	NW	..	..	..	..	..	..	1	1	0	0	0	0	24
..	..	NW	..	..	W	..	..	..	1	2	4	3	0	1	25
..	..	SSW	..	..	W	..	..	..	2	1	0	1	0	0	26
..	..	NW	..	..	..	..	..	..	2	3	3	0	0	0	27
..	..	N	..	..	..	..	..	..	0	1	1	0	0	1	28
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	29
..	..	S	..	..	..	..	..	SW	0	0	2	0	3	4	30
									2·1	1·4	1·1	0·7	0·8	1·0	Mean cloud amount.

Notation :—H=High clouds (Ci, Ci-S., Ci-Cu,); M=Medium clouds

MAY.

Date.	Cloud Forms (coming from)									Cloud Amount (All Forms).					
	8½h.			12½h.			16½h.			6h.	8h.	10h.	12½h.	16½h.	22h.
	H.	M.	L.	H.	M.	L.	H.	M.	L.						
1	..	..	W	..	..	SW	.	..	SW	0	0	1	1	3	3
2	..	..	S	..	..	..	..	..	W	2	1	1	0	1	2
3	..	..	S	..	..	..	..	..	WNW	1	2	1	0	2	3
4	..	S	SW	..	..	..	..	..	..	2	3	3	0	0	0
5	..	..	SW	..	..	..	SW	..	..	0	1	1	0	1	4
6	..	..	W	..	..	..	..	..	..	1	2	1	0	0	2
7	SW	..	..	SW	..	..	SW	..	..	2	2	4	3	1	2
8	SW	..	S	WNW	..	..	..	..	NW	2	4	4	2	1	5
9	W	..	..	SSW	..	..	SW	..	W	2	3	3	3	5	4
10	..	..	W	SW	..	W	W	..	W	3	2	2	3	7	5
11	..	..	SW	..	..	SW	..	..	SW	6	2	3	5	3	3
12	..	SW	W	..	..	WSW	..	..	WNW	3	5	3	2	4	2
13	..	..	W	..	..	W	..	SW	W	3	3	3	4	2	2
14	..	..	WNW	..	..	W	..	..	WNW	2	1	4	2	2	1
15	..	..	SW	..	..	W	..	..	W	2	2	2	1	3	1
16	..	..	WNW	..	..	SW	..	..	W	2	1	1	1	3	0
17	..	..	NW	..	..	NW	..	..	WNW	1	1	1	1	2	1
18	..	..	NW	..	..	W	..	..	NW	3	3	1	1	1	4
19	..	..	N	..	..	NW	..	..	NW	5	3	1	1	1	2
20	..	..	NW	SE	SSE	.	..	..	NE	4	3	2	2	1	1
21	..	..	NW	..	..	NW	..	..	NW	2	3	1	1	1	1
22	..	..	NNW	W	SW	NW	W	WSW	N	1	1	2	5	4	1
23	..	..	N	..	..	N	ESE	..	..	1	2	1	1	1	1
24	..	..	NW	..	..	..	SE	..	..	4	3	3	0	1	1
25	..	..	WNW	..	..	NW	..	..	NW	3	2	1	2	1	2
26	..	..	NW	..	..	W	..	..	..	3	3	2	1	0	1
27	..	..	NW	..	..	NW	..	..	NW	2	3	1	1	3	1
28	..	..	NW	..	..	..	..	..	NW	2	1	1	0	1	1
29	.	..	W	..	..	W	SE	..	W	2	3	1	2	3	1
30	..	..	NNW	SE	..	W	..	..	NW	1	1	1	2	3	1
31	SE	..	W	SE	..	WNW	SE	..	NW	1	3	4	3	5	2
Mean cloud amount.										2·2	2·2	1·9	1·6	2·1	1·9

JULY.

1	..	..	SW	..	..	WSW	..	..	W	10	10	10	10	10	10
2	..	..	WSW	..	..	W	..	..	W	8	10	10	10	10	10
3	..	..	W	..	..	W	..	..	W	10	10	10	10	10	10
4	..	..	W	..	..	W	..	..	W	10	10	10	10	10	10
5	..	SW	W	..	WSW	SW	..	..	W	9	9	10	7	9	9
6	..	..	W	..	..	W	..	WSW	W	7	10	5	10	7	8
7	..	..	SW	..	..	SW	..	..	SW	10	10	10	10	10	10
8	..	..	SW	..	..	WSW	..	..	WSW	10	10	10	9	10	10
9	..	..	W	..	..	W	..	..	W	10	10	9	10	10	10
10	..	..	W	..	..	W	..	..	SW	10	10	10	10	10	9
11	..	SW	W	..	..	WSW	..	SW	WSW	9	7	6	6	7	7
12	..	..	W	..	..	W	..	..	W	8	10	5	.	7	9
13	..	..	W	..	WSW	WSW	..	W	W	9	7	6	7	6	4
14	..	..	W	..	W	WSW	..	..	WSW	6	5	8	5	6	5
15	..	..	SSW	..	..	WSW	..	..	W	4	6	8	10	10	4
16	..	..	W	..	..	W	..	..	W	6	10	4	10	6	8
17	..	..	W	..	..	W	..	..	W	10	10	10	10	10	10
18	..	..	W	..	..	W	..	..	W	10	10	9	6	10	10
19	..	..	W	..	..	W	..	..	W	10	10	10	9	10	10
20	..	..	W	..	..	W	..	..	W	10	10	10	10	10	9
21	..	..	W	..	..	W	..	..	W	10	10	10	10	10	10
22	..	..	W	..	..	W	..	..	W	10	10	8	6	10	6
23	..	..	W	..	..	WSW	..	..	WSW	10	10	4	4	8	6
24	E	..	W	E	..	W	..	..	W	10	6	4	5	6	5
25	..	W	W	..	W	W	..	W	W	9	5	10	8	6	7
26	..	..	W	..	..	WNW	..	..	W	10	7	9	9	10	7
27	..	..	W	..	..	W	..	..	W	7	6	10	10	10	10
28	..	..	WNW	..	..	W	..	..	WNW	10	10	10	10	10	9
29	..	..	W	..	W	W	..	..	W	10	10	7	8	7	4
30	..	..	W	..	..	W	..	..	W	10	10	10	9	10	4
31	..	..	W	..	..	W	..	..	W	10	9	10	9	9	7
Mean cloud amount.										9·1	8·9	8·5	8·5	8·8	8·0

(A-Cu, A-S); L=Low clouds (Cu, Cu-N, S, N.), .. =No cloud.

JUNE.

Cloud Forms (Coming from)									Cloud Amount (All Forms).						Date.
8½h.			12½h.			16½h.			6h.	8h.	10h.	12½h.	16½h.	22h.	
H.	M.	L.	H.	M.	L.	H.	M.	L.							
..	..	NW	..	..	NW	SW	..	WNW	1	1	1	2	2	3	1
..	..	SW	..	..	WSW	..	..	W	2	1	2	2	3	3	2
SE	..	W	..	..	W	..	..	W	2	3	4	2	2	3	3
..	..	W	..	..	W	..	..	WNW	2	2	6	2	2	3	4
..	..	WNW	E	..	W	..	..	W	2	3	2	2	3	3	5
..	..	WNW	E	..	W	..	..	NW	2	4	2	2	1	1	6
SW	..	SW	..	..	SW	..	..	W	4	3	2	1	2	4	7
SE	..	NW	..	..	NW	..	..	S	1	1	2	2	10	2	8
SE	..	SE	..	SE	SW	..	..	NW	2	2	1	3	9	10	9
SE	..	SE	..	..	S	SE	..	S	6	5	10	9	4	6	10
SE	..	S	SSE	..	S	SE	..	S	3	4	3	2	2	3	11
..	..	S	..	..	S	..	..	SW	4	5	5	5	5	7	12
..	..	SW	..	..	WSW	..	ESE	SW	3	5	4	7	9	5	13
..	SW	WSW	NE	SW	WSW	..	..	SW	4	5	4	5	7	5	14
..	..	W	..	..	SW	..	..	W	8	7	6	10	10	10	15
..	..	SSW	..	..	SW	..	SE	SW	10	8	7	10	8	8	16
..	E	SE	..	..	SW	..	S	SW	3	3	3	1	7	6	17
..	..	S	..	ESE	SE	E	E	SSW	2	1	2	7	7	3	18
..	ENE	S	..	E	S	..	..	SSE	9	9	8	6	9	8	19
..	..	S	..	..	SSE	..	SE	S	10	8	7	8	9	10	20
.	..	SE	..	W	S	..	..	SW	10	10	10	9	10	10	21
..	..	SSE	..	..	SW	..	..	W	10	8	10	10	10	10	22
..	..	SW	..	..	SW	..	..	WSW	10	10	10	10	10	10	23
..	..	W	..	..	WSW	..	..	WSW	10	10	10	10	10	10	24
..	..	SW	..	E	W	..	SE	S	10	10	10	8	7	5	25
..	..	SW	..	..	SSW	..	..	S	10	10	10	10	10	10	26
..	..	S	..	..	S	..	..	W	10	10	10	10	10	10	27
..	..	SW	..	..	W	..	..	SW	10	10	10	10	10	10	28
..	..	SW	..	..	SW	..	..	SW	10	10	10	10	10	10	29
..	..	SW	..	..	WSW	..	..	SW	10	10	10	10	10	10	30
									6·0	5·9	5·8	6·2	6·9	6·6	Mean cloud amount.

AUGUST.

..	..	W	..	..	WNW	..	..	WNW	8	6	10	10	10	10	1
..	..	W	..	..	W	..	..	W	10	8	10	10	8	10	2
..	..	WNW	..	..	W	..	..	W	10	10	10	10	10	10	3
..	..	W	..	..	W	..	..	WNW	10	10	10	10	10	10	4
..	..	W	..	..	W	..	..	NW	10	10	10	10	10	10	5
..	..	W	..	..	W	..	..	W	10	10	10	9	9	9	6
..	..	W	..	..	W	..	..	W	10	10	10	10	10	7	7
..	..	W	..	..	W	..	..	W	10	10	10	10	10	8	8
..	..	W	..	..	W	..	..	W	10	10	9	10	8	9	9
..	..	W	..	..	W	..	..	W	10	10	10	9	10	10	10
..	..	W	..	..	W	..	..	W	10	10	10	10	10	10	11
..	..	W	..	..	W	..	..	W	10	10	10	10	10	8	12
..	..	W	..	..	W	..	..	W	9	8	10	10	7	10	13
..	..	W	..	..	W	..	..	W	10	7	10	7	10	10	14
..	..	W	..	..	W	..	..	W	10	10	6	9	8	10	15
..	..	W	..	..	W	..	..	W	10	8	9	7	5	6	16
..	..	NW	..	..	W	..	..	NW	8	10	10	10	7	8	17
..	..	W	..	..	WSW	..	WSW	WSW	8	7	7	6	5	4	18
..	..	W	..	..	WSW	..	..	W	6	7	5	7	7	5	19
..	..	W	..	..	WSW	..	..	WSW	8	10	10	7	10	5	20
..	..	W	..	..	WSW	..	..	WNW	10	10	6	9	6	6	21
..	..	W	..	..	W	..	..	W	7	8	6	7	10	7	22
..	..	WSW	..	..	W	..	..	W	4	8	4	6	5	4	23
..	..	SW	..	..	W	..	..	WNW	7	10	9	10	7	3	24
..	..	W	..	..	WSW	..	..	WSW	2	4	3	6	3	4	25
..	..	SW	..	..	W	..	..	W	10	10	9	5	7	2	26
..	..	SW	..	..	SW	..	..	W	10	9	7	10	5	10	27
..	..	W	..	..	W	..	..	W	8	10	10	10	10	7	28
..	..	W	..	..	W	..	..	WNW	7	6	6	6	5	3	29
..	..	SW	..	..	SW	..	..	W	10	5	4	5	5	6	30
..	..	E	..	..	SE	..	NE	WNW	7	10	10	10	5	4	31
									8·7	8·7	8·4	8·5	7·8	7·3	Mean cloud amount.

Notation :—H=High clouds (Ci, Ci-S, Ci.-Cu.); M=Medium clouds.

SEPTEMBER.

Date.	Cloud Forms (Coming from)									Cloud Amount (All Forms).					
	8½h.			12½h.			16½h.			6h.	8h.	10h.	12½h.	16½h.	22h.
	H.	M.	L.	H.	M.	L.	H.	M.	L.						
1	..	E	SE	..	..	NW	..	..	NW	6	7	7	6	5	8
2	..	..	NNE	..	..	NW	..	..	NW	4	4	5	3	10	8
3	..	NE	ENE	..	SE	NW	..	..	NW	8	5	6	5	10	3
4	..	..	NW	..	..	NW	..	..	NW	10	9	7	5	4	6
5	..	..	NW	..	..	WNW	..	N	NW	10	9	5	5	7	8
6	..	..	NW	..	..	NW	..	..	NW	10	10	10	10	10	10
7	..	SE	W	..	W	SW	..	N	W	10	8	7	6	8	10
8	..	SW	W	..	SW	W	..	..	NW	6	5	6	6	10	10
9	..	..	NW	..	..	NW	..	..	NW	10	10	10	10	10	10
10	..	..	NW	..	..	NW	..	..	NW	10	10	10	10	10	10
11	..	..	NW	..	..	NW	..	..	NW	10	10	10	10	10	10
12	..	..	W	..	..	W	..	..	W	10	10	10	10	10	10
13	..	..	W	..	..	NW	..	..	W	10	10	10	10	10	10
14	..	..	NW	..	..	W	..	..	NW	10	10	10	10	10	10
15	..	..	W	..	..	NW	..	..	W	10	10	10	10	10	10
16	..	W	W	..	W	W	..	..	W	9	7	7	8	5	6
17	..	..	W	..	..	W	..	..	W	9	7	7	8	7	6
18	..	..	W	..	..	W	..	..	W	10	8	6	8	7	4
19	..	..	W	..	..	W	..	..	W	10	9	8	7	6	4
20	..	SE	SW	..	..	W	..	..	NW	9	6	7	4	6	4
21	..	..	N	..	..	NW	..	..	N	8	8	7	5	6	4
22	..	..	N	..	..	SW		..	W	7	6	8	5	4	3
23	SW	..	WSW	..	..	SW	W	..	W	4	4	4	3	2	1
24	..	..	NW	..	..	W	E	..	NW	9	10	8	10	2	1
25	..	SW	NW	..	NW	NW	..	..	NW	9	7	4	7	4	2
26	..	N	N	..	N	NW	SE	..	NW	10	7	10	8	4	4
27	..	..	N	..	..	NW	SSE	..	NW	10	8	8	4	3	2
28	..	..	N	..	..	NW	SE	..	NW	3	8	1	1	3	2
29	..	..	NW	SE	..	SE	SE	..	NW	8	8	9	6	3	9
30	SE	..	W	..	..	W	SE	..	NW	5	7	6	6	5	3
Mean cloud amount.										8·5	7·9	7·4	6·9	6·7	6·1

NOVEMBER.

1	..	..	S	..	..	S	SW	S	SW	8	10	8	9	6	9
2	..	..	SW	..	..	SW	W	..	NW	10	9	9	4	3	3
3	..	N	SW	SE	..	NW	..	W	NW	3	6	8	6	6	4
4	NE	..	E	..	NE	E	E	E	SW	3	1	4	6	7	4
5	SE	..	..	W	..	NW	SW	..	N	1	1	2	3	5	2
6	E	..	..	SW	..	..	SW	..	..	1	1	1	2	4	1
7	SSW	..	..	SW	..	..	SW	..	..	3	6	7	6	2	0
8	S	..	..	SE	..	..	S	..	..	2	3	3	2	3	0
9	..	..	..	..	..	..	W	..	..	0	0	0	0	1	0
10	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
11	SE	..	..	SW	..	..	SW	..	..	0	1	0	1	3	1
12	SW	..	..	SE	..	..	..	..	..	1	2	2	1	0	0
13	SW	..	..	..	..	..	SW	..	..	1	2	2	0	1	0
14	SE	..	..	SE	..	..	..	..	..	0	1	1	1	0	0
15	S	SW	SE	S	..	..	W	..	..	1	4	6	2	1	0
16	S	..	..	SSW	..	..	SW	..	..	2	7	6	4	8	1
17	S	..	..	S	..	..	SE	..	..	1	1	1	1	2	0
18	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
19	SW	..	..	W	..	NW	SW	..	..	5	3	2	7	2	1
20	..	..	..	SW	..	N	..	..	..	0	0	0	3	0	0
21	..	..	..	..	..	NW	..	..	..	0	0	0	1	0	0
22	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
23	..	..	..	..	..	..	..	..	..	5	0	0	0	0	0
24	..	S	SE	SW	..	N	..	..	W	7	7	1	2	2	1
25	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
26	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
27	..	..	..	SW	..	..	SW	..	..	0	0	0	1	1	0
28	SSW	..	..	SW	..	..	SW	..	..	1	1	2	2	3	0
29	S	..	..	SW	..	..	S	..	..	1	4	6	7	8	3
30	SW	..	..	S	..	..	SE	..	..	5	4	3	2	1	0
Mean cloud amount.										2·0	2·5	2·5	2·4	2·3	1·0

(A-Cu, A-S); L=Low clouds (Cu, Cu-N, S, N); .. =No cloud.

OCTOBER.

Cloud Forms (coming from)									Cloud Amount (All Forms).						Date.
8½h.			12½h.			16½h.									
H.	M.	L.	H.	M.	L.	H.	M.	L.	6h.	8h.	10h.	12½h.	16½h.	22h.	
W	..	N	E	..	..	SE	..	..	5	6	4	3	1	2	1
..	SE	N	..	SE	..	..	NW	W	9	8	6	9	6	4	2
..	..	N	..	..	NW	..	..	NW	9	10	10	5	2	7	3
SE	..	..	SE	..	NW	SE	..	NW	6	1	3	3	4	4	4
..	..	NW	..	..	NW	..	..	NW	4	3	5	1	2	4	5
..	SE	ESE	..	SSE	NW	SE	..	SE	8	5	4	6	6	10	6
SE	SE	N	..	..	NW	NE	..	NW	7	7	6	1	7	4	7
..	E	..	..	..	E	W	..	..	8	2	2	1	2	6	8
SW	..	E	SE	SE	S	..	SE	SE	4	3	4	5	9	8	9
..	..	NE	SE	ESE	SW	W	W	NW	8	10	10	9	7	10	10
SE	..	..	SE	..	S	..	..	SE	2	2	3	3	8	10	11
SE	SE	..	S	..	N	SE	..	..	2	5	2	4	5	9	12
NE	..	..	SSW	..	..	SE	..	..	4	4	3	4	2	3	13
SE	..	..	NW	..	..	SW	..	..	2	2	2	2	2	1	14
NW	..	..	SE	..	..	E	..	..	5	2	3	2	2	1	15
SE	..	..	SE	..	..	S	..	..	2	1	1	1	1	1	16
SE	..	..	WSW	..	..	..	SE	..	1	1	1	1	1	2	17
SW	..	..	SW	..	..	..	..	SE	2	3	3	2	2	3	18
E	..	..	..	..	..	SE	..	..	0	1	0	0	1	1	19
..	SE	E	W	..	..	SW	..	W	5	5	2	2	6	3	20
..	..	SW	SW	SW	WSW	..	..	NE	3	3	3	4	2	1	21
..	..	..	..	..	W	N	..	W	1	0	1	1	2	1	22
SW	..	NW	SW	..	NW	NW	..	..	4	5	4	2	1	1	23
NE	..	NE	SE	..	SW	NW	..	..	4	4	2	3	4	3	24
SW	..	..	SW	..	..	SW	..	..	3	3	2	1	3	3	25
SW	SW	W	SW	..	W	SW	SW	..	3	8	7	6	3	3	26
SW	SW	SE	..	..	E	..	NW	NE	6	9	9	10	10	10	27
..	SE	SE	..	ESE	ESE	..	SE	SE	9	10	10	9	10	10	28
..	SE	SE	..	..	S	..	..	S	10	10	10	10	10	10	29
..	..	SW	SW	..	SW	SE	..	SW	10	10	8	8	8	3	30
..	..	E	..	..	N	E	NE	..	9	10	10	3	3	1	31
									5·0	4·9	4·7	4·0	4·3	4·5	Mean cloud amount.

DECEMBER.

SE	..	..	SE	..	..	..	..	..	3	1	1	1	0	0	1
..	..	..	..	..	NE	..	SE	S	5	0	0	1	5	5	2
..	..	..	SE	..	..	S	..	NW	0	0	1	1	4	9	3
..	..	..	..	..	NW	S	..	NW	1	0	1	2	2	10	4
W	S	SE	SW	S	NW	SW	..	NW	3	5	4	7	6	1	5
..	..	..	..	..	N	..	..	NW	1	0	0	2	1	0	6
..	..	..	..	..	..	..	..	N	0	0	0	0	1	0	7
..	..	..	..	..	..	..	..	..	1	0	0	0	0	0	8
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	9
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	10
SW	..	..	W	..	..	..	..	..	1	1	0	1	0	0	11
..	..	..	..	..	..	..	..	..	1	0	0	0	0	0	12
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	13
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	14
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	15
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	16
..	..	..	..	..	..	..	..	..	1	0	0	0	0	1	17
..	..	..	..	..	NW	..	..	..	0	0	4	1	0	0	18
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	19
SW	..	..	SW	..	..	S	..	..	2	3	5	3	1	0	20
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	21
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	22
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	23
SW	..	..	..	..	..	..	..	..	2	2	0	0	0	0	24
..	..	..	..	..	..	SW	..	..	0	0	0	0	1	0	25
..	..	..	..	..	..	..	..	..	0	0	0	0	0	1	26
..	SW	W	..	..	NW	SW	..	NW	5	7	4	1	2	0	27
..	..	..	..	..	S	..	..	..	0	0	1	1	0	0	28
..	..	..	SW	..	..	..	..	..	1	1	1	1	0	0	29
..	..	..	..	..	N	..	..	..	0	0	1	1	0	0	30
..	SSW	..	..	..	..	..	..	..	1	1	0	0	0	0	31
									0·9	0·7	0·8	0·8	0·8	0 9	Mean cloud amount.

DURATION OF BRIGHT SUNSHINE,* 1930.

Month.	Hours.													Bright Sunshine.	
	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15	15—16	16—17	17—18	18—19	Average per day.	Greatest number of hours in a day.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hrs.	hrs.
January	0·27	0·94	0·98	0·99	0·96	0·98	0·97	0·96	0·96	0·93	0·83	0·03	..	9·8	10·5
February	·50	·98	1·00	1·00	1·00	1·00	·98	·97	·96	·95	·96	·12	..	10·4	10·8
March	·07	·87	0·98	1·00	1·00	1·00	1·00	1·00	1·00	1·00	·97	·20	..	10·1	10·9
April	·34	·94	·97	1·00	1·00	0·99	1·00	1·00	0·97	0·99	1·00	·59	..	10·8	11·4
May	·43	·89	·96	0·98	0·99	1·00	1·00	0·97	·96	·95	0·93	·64	·01	10·7	11·9
June	·29	·48	·54	·57	·51	0·55	0·50	·55	·51	·47	·42	·24	..	5·6	11·3
July	·02	·21	·34	·39	·36	·35	·36	·35	·37	·35	·20	·04	..	3·3	8·0
August	..	·14	·30	·31	·27	·31	·41	·40	·45	·43	·35	·05	..	3·4	9·3
September	·05	·35	·53	·55	·60	·57	·67	·66	·63	59	·44	·02	..	5·7	10·5
October	·13	·61	·79	·75	·77	·86	·88	·91	·87	·86	·70	·10	..	8·3	10·6
November	·34	·88	·90	·89	·93	·99	·96	·97	·91	·97	·90	·11	..	9·7	10·8
December	·34	·98	·97	·99	1·00	1·00	1·00	1·00	·98	·99	·97	·07	..	10·3	10·6
Mean	0·23	0·69	0·77	0·79	0·78	0·80	0·81	0·81	0·80	0·79	0·72	0·18	..	8·2	..

* From Campbell-Stokes Sunshine Recorder.

MAGNETIC TABLES.

(ALIBAG OBSERVATORY.)

Diurnal variation of magnetic elements.

The following tables give the diurnal variation of declination (D), horizontal component of the force (H), the easterly component (Y), the vertical component (Z), the inclination (I) and the total force (F) for each month based on the hourly tabulations for the 5 international quiet days. Owing to very small value of D the variation tables of H and the northerly component of the force (X) are practically the same. No separate table for $\triangle$ X has consequently been given. The days are reckoned from 4 h. 51 m. to 3 h. 51 m. of the local mean time corresponding to the Greenwich civil day 0 h. to 23 h.

The variations in X, Y, I and F were computed from the variations in D, H and Z by means of the formulæ:

$$\triangle X = 1{\cdot}000 \triangle H + 0{\cdot}026 \triangle D.$$
$$\triangle Y = -0{\cdot}002 \triangle H + 10{\cdot}841 \triangle D.$$
$$\triangle I = 0{\cdot}075 \triangle Z - 0{\cdot}036 \triangle H.$$
$$\triangle F = 0{\cdot}903 \triangle H + 0{\cdot}431 \triangle Z.$$

A *plus* sign indicates an hourly value greater than the mean for the day.

Mean results are also given for groups of four months, as indicated by the Roman numerals at the head of the columns:—I January, February, November, December; II March, April, September, October; III May, June, July, August.

All diurnal inequalities have been corrected for the aperiodic change by the formula $\frac{N(12-n)}{24}$ where 'N' denotes the excess at the second midnight of the representative day as compared to the first midnight, and 'n' denotes any hour of the day reckoned from 0 (first midnight) to 24. The actual non-cyclic corrections applied, namely, $(a_{24} - a_0)$ in the different months of the year have been given under the respective columns of the tables for $\triangle$D, $\triangle$H and $\triangle$Z.

The "allowance for the use of the Means", which is given by $u_p = m_p + \frac{1}{12}\left(m_p - \frac{m_{p+1} + m_{p-1}}{2}\right)$, where u_p is the true ordinate and m_{p-1}, m_p, m_{p+1} the successive mean ordinates, is very small and less than 1γ in the case of H and V and 0·1 minute of arc in the case of D. Although small, the corrections have been used in determining the last significant figure in the following variation tables.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

Hour.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Group means.			Year.
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
0	−0·6	−0·3	−0·3	+0·1	+0·2	+0·5	+0·5	+0·5	+0·2	0·0	−0·3	−0·3	−0·4	0·0	+0·4	−0·0
1	−0·8	−0·6	−0·1	+0·6	+1·1	+1·3	+1·2	+1·2	+0·5	0·0	−0·5	−0·4	−0·5	+0·2	+1·2	+0·3
2	**−0·9**	−0·7	+0·3	+1·5	+1·8	+2·2	**+1·5**	**+1·8**	+1·7	+0·6	**−0·7**	−0·6	**−0·7**	+1·0	**+1·8**	+0·7
3	0·0	−1·0	**+1·0**	**+2·0**	**+2·1**	**+2·4**	+1·2	+1·7	**+2·4**	**+0·9**	−0·4	**−0·7**	+0·3	**+1·6**	+1·8	**+1·0**
4	+1·5	+0·4	+1·0	+1·7	+1·6	+1·6	+0·7	+1·2	+1·6	+0·7	−0·3	−0·4	+0·3	+1·3	+1·3	+0·9
5	**+2·1**	**+0·7**	+0·5	+0·9	+0·4	+0·4	0·0	+0·2	+0·5	+0·1	−0·2	−0·3	**+0·6**	+0·5	+0·3	+0·5
6	+0·8	+0·4	−0·4	−0·1	−0·9	−0·7	−0·5	−0·8	−1·4	−0·9	−0·3	−0·7	+0·1	−0·7	−0·7	−0·5
7	−0·5	−0·6	**−1·1**	−1·4	−0·7	−1·4	−0·9	−1·7	−2·6	**−1·6**	−0·4	−0·7	−0·5	−1·7	−1·2	−1·1
8	−0·1	**−1·0**	−0·9	**−2·5**	**−1·9**	**−2·0**	**−1·0**	**−1·8**	−2·7	−1·6	0·0	−0·1	−0·3	**−1·9**	**−1·7**	**−1·3**
9	+0·1	−0·6	−0·4	−1·5	−1·6	−1·9	−0·9	−1·8	−1·9	−0·9	**+0·3**	+0·3	0·0	−1·2	−1·5	−0·9
10	−0·3	−0·4	+0·4	−0·7	−0·9	−1·3	−0·4	−1·1	−0·8	−0·2	+0·2	**+0·5**	0·0	−0·3	−0·9	−0·4
11	−0·3	−0·3	+0·9	−0·2	−0·2	−0·7	−0·1	−0·5	+0·1	+0·5	+0·2	+0·5	0·0	+0·3	−0·4	0·0
12	**−0·3**	+0·1	+0·8	+0·1	+0·1	−0·1	−0·2	−0·2	+0·3	+0·5	+0·2	+0·4	+0·1	+0·4	−0·1	+0·2
13	−0·2	+0·2	+0·1	0·0	+0·3	+0·2	−0·4	−0·1	+0·1	+0·2	+0·2	+0·3	+0·1	+0·1	0·0	+0·1
14	−0·2	+0·3	−0·2	−0·2	−0·1	−0·3	−0·5	−0·3	0·0	+0·1	+0·2	+0·3	+0·2	−0·1	−0·3	−0·1
15	−0·1	+0·5	−0·1	−0·3	−0·2	−0·4	−0·4	−0·6	+0·1	+0·1	+0·2	+0·3	+0·2	0·0	−0·4	−0·1
16	0·0	+0·5	−0·1	−0·2	−0·3	−0·5	−0·5	−0·6	+0·2	+0·1	+0·2	+0·3	+0·2	0·0	−0·5	−0·1
17	−0·2	+0·4	−0·2	−0·1	−0·2	−0·3	−0·4	−0·4	+0·2	+0·1	+0·2	+0·3	+0·2	0·0	−0·3	−0·1
18	0·0	+0·3	−0·2	−0·1	−0·2	0·0	−0·1	−0·1	+0·3	+0·2	+0·3	+0·3	+0·2	0·0	−0·1	0·0
19	0·0	+0·3	−0·1	0·0	−0·1	+0·1	−0·1	+0·1	+0·2	+0·2	+0·3	+0·3	+0·2	+0·1	0·0	+0·1
20	0·0	+0·3	−0·2	+0·1	+0·1	+0·2	+0·1	+0·3	+0·2	+0·2	+0·3	+0·2	+0·2	+0·1	+0·1	+0·1
21	−0·1	+0·2	−0·2	+0·2	+0·2	+0·2	+0·3	+0·4	+0·2	+0·2	+0·1	+0·2	+0·1	+0·1	+0·3	+0·2
22	0·0	+0·1	−0·2	+0·2	+0·2	+0·3	+0·4	+0·5	+0·3	+0·2	+0·1	+0·1	+0·1	+0·1	+0·3	+0·2
23	−0·2	−0·1	−0·3	−0·1	+0·2	+0·4	+0·4	+0·5	+0·3	0·0	0·0	−0·1	−0·1	0·0	+0·4	+0·1
Non cyclic change. 24h—0h.	+0·2	+0·14	−0·05	−0·07	+0·12	−0.06	+0·20	−0·12	−0·01	+0·09	+0·01	−0·02				

DIURNAL VARIATION OF H, 1930.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
0	−6	−6	−11	−12	−9	−5	−7	−4	−4	−4	−7	−6	−6	−8	−6	−7
1	−3	−4	−10	−10	−10	−5	−5	−5	−4	−4	−4	−4	−4	−7	−6	−6
2	+1	−1	−9	−5	−7	−4	−1	−7	−6	−3	+3	+2	+1	−6	−5	−3
3	+6	+5	−4	−6	+1	+2	+3	**−5**	−5	+1	+11	+9	+8	−1	0	+3
4	+11	+14	+7	+22	+14	+12	+9	−2	+4	+8	+17	**+13**	+14	+10	+8	+11
5	+21	+20	+21	+35	+26	+22	+18	+9	+18	+15	+22	+16	+20	+22	+19	+20
6	**+24**	+26	+32	**+39**	**+34**	**+26**	**+23**	+15	+27	+25	**+24**	**+18**	**+23**	**+31**	**+25**	+26
7	+22	**+30**	**+36**	+39	+33	+23	+22	+22	**+29**	**+28**	+21	+15	+22	**+33**	+25	**+27**
8	+15	+27	+32	+29	+28	+20	+18	**+25**	+24	+23	+13	+8	+16	+27	+23	+22
9	+7	+21	+22	+15	+20	+15	+13	+20	+16	+13	+3	+6	+9	+17	+17	+14
10	0	+11	+12	+1	+12	+6	+7	+13	+6	+4	−1	+2	+3	+6	+9	+6
11	−4	+1	+4	−8	+3	0	−3	+6	−3	−2	−4	0	−2	−2	+2	−1
12	−6	−5	−3	−8	−3	−6	−10	0	−9	−8	−5	−2	−5	−7	−5	−5
13	−5	−8	−7	−7	−6	−9	−10	−4	−8	−8	−6	−6	−6	−8	−7	−7
14	−4	−13	−8	−11	−13	−10	−9	−8	**−10**	−8	−8	−5	−7	−9	−10	−9
15	−7	−18	−9	−14	−16	**−11**	**−11**	−9	−10	−11	−9	−6	−10	−11	**−12**	−11
16	**−11**	−17	−13	**−17**	**−17**	−11	−9	−8	−10	**−13**	**−10**	−7	−11	**−13**	−11	**−12**
17	−11	**−20**	−13	−15	−15	−11	−7	−9	−9	**−12**	−9	**−8**	**−12**	−12	−11	−12
18	−10	−16	**−14**	−12	−14	−9	−7	−6	−10	−11	−10	−8	−11	−11	−9	+2
19	−8	−12	−14	−14	−9	−11	−5	−8	−9	−9	−9	−6	−9	−11	−8	−9
20	−8	−13	−14	−13	−10	−9	−4	**−11**	−7	−8	−9	−7	**−9**	−10	−9	−9
21	−7	−11	−14	−16	−11	−10	−7	−10	−7	−7	−8	−7	−8	−11	−9	−10
22	−7	−9	−13	−15	−12	−8	−8	−8	−7	−6	−8	−7	−8	−10	−9	−9
23	−8	−7	−12	−13	−11	−7	−8	−8	−5	−6	−8	−7	−8	−9	−8	−8
Non-cyclic change.	+5·6	+0·9	+1·7	+3·1	+7·6	+15·8	+2·2	+1·8	+5·2	+5·2	+4·6	+6·5				

DIURNAL VARIATION OF Y, 1930.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
0	−6	−3	−3	+1	+2	+6	+6	+5	+3	0	−3	−4	−4	0	+5	0
1	−8	−6	−1	+6	+12	+14	+13	+13	+5	0	−5	−4	−6	+3	+13	+3
2	**−10**	−8	+4	+16	+20	+24	**+16**	**+19**	+18	+7	**−8**	−7	**−8**	+11	**+20**	+8
3	0	−1	**+11**	**+21**	**+22**	**+26**	+13	+18	**+26**	**+10**	−4	**−8**	−3	**+17**	+20	**+11**
4	+17	+5	+11	+18	+17	+17	+8	+13	+18	+8	−3	−4	+4	+13	+14	+10
5	**+23**	**+7**	+5	+10	+4	+4	0	+3	+5	+2	−2	−3	**+6**	+6	+3	+5
6	+9	+5	−5	−1	−10	−7	−5	−9	−16	−9	−3	−8	+1	−8	−8	−5
7	−5	−7	**−12**	−15	−8	−15	−10	−19	−28	**−18**	−4	−7	−6	−18	−13	−12
8	−1	**−11**	−10	**−27**	**−20**	−22	**−11**	**−20**	**−29**	−17	0	−1	−3	**−21**	**−18**	**−14**
9	+1	−7	−4	−16	−17	−21	−10	−19	−21	−9	**+4**	+4	0	−13	−17	−10
10	−3	−5	+4	−8	−9	−14	−4	−13	−8	−2	+2	**+6**	0	−3	−10	−5
11	−3	−3	+9	−2	−2	−7	−1	−6	+1	+5	+2	+5	0	+3	−4	0
12	**−3**	+1	+9	+1	+1	−1	−2	−2	+4	+5	+2	+5	+1	+5	−1	+2
13	−3	+3	+1	0	+3	+2	−4	−2	+1	+2	+2	+3	+1	+1	0	+1
14	−2	+4	−2	−2	−1	−3	−5	−4	0	+1	+2	+4	+2	−1	−3	−1
15	−1	+6	−1	−3	−2	−5	−5	−7	+1	+2	+3	+3	+3	0	−5	−1
16	0	+5	−1	−2	−3	−5	−5	−7	+2	+1	+2	+3	+3	0	−5	−1
17	−2	+4	−2	−2	−3	−3	−4	−4	+3	+1	+2	+3	+2	0	−4	−1
18	0	+3	−2	−1	−2	0	−1	−1	+3	+2	+3	+3	+2	0	−1	0
19	0	+3	−2	0	−1	+2	−1	+1	+3	+3	+3	+3	+2	+1	0	+1
20	0	+3	−2	+2	+1	+2	+1	+3	+2	+3	+3	+2	+2	+1	+2	+2
21	−1	+2	−2	+2	+2	+2	+3	+4	+2	+2	+2	+2	+1	+1	+3	+2
22	0	+1	−2	+2	+2	+3	+4	+5	+3	+2	+1	+1	+1	+1	+3	+2
23	−2	−2	−3	−1	+2	+4	+4	+6	+3	0	0	−1	−1	0	+4	+1

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

Hours.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Group means.			Year.
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
0	+4	+3	+2	+2	+4	+7	+7	+5	+7	+1	0	−2	+1	3	+6	+3
1	+5	+2	+4	+7	**+9**	**+13**	**+11**	**+9**	+11	+4	−2	−2	+1	+7	**+11**	**+6**
2	+5	+3	**+7**	**+8**	+9	+12	+6	**+7**	**+17**	**+9**	−2	−5	0	**+10**	+9	+6
3	+9	+7	+4	+2	+2	+3	−2	+1	+10	+3	+2	−3	+4	+5	+1	+3
4	**+11**	**+9**	−6	−9	−8	−10	−8	−6	−8	−8	+1	−2	+5	−8	−8	−4
5	−7	+5	−12	−13	−18	−17	−13	−15	−24	−16	−1	−4	−2	−17	−16	−11
6	**−25**	−4	**−14**	−20	**−21**	**−20**	**−14**	**−19**	**−33**	**−20**	−2	−7	**−9**	**−22**	**−18**	**−17**
7	−19	**−3**	−11	**−21**	−19	−19	−11	−14	−27	−17	0	−3	−9	−19	−16	−15
8	−7	−9	−3	−12	−11	−15	−6	− 5	−13	−9	+2	+2	−3	−9	−9	−7
9	−5	−5	+3	−3	−2	−8	−1	− 1	+1	0	+1	+4	−1	0	−3	−1
10	−7	−4	+7	+2	+6	+1	+2	+3	+9	+4	−2	+3	−3	+5	+3	+2
11	−4	0	+6	+2	+7	+6	+2	+5	+8	+3	−2	+1	−1	+5	+5	+3
12	−2	+2	0	+2	+7	+6	−1	+1	+2	−1	−1	+2	0	+1	+3	+1
13	0	+1	−5	+1	+3	+3	−1	+1	0	−1	0	+2	+1	−1	+1	0
14	+3	+2	−1	0	−1	−1	−1	−1	+1	+1	0	+3	+2	0	−1	+1
15	+3	+1	+1	+2	+1	+1	0	−2	+2	+2	+1	+3	+2	+2	0	+1
16	+3	−1	0	+3	+1	+2	+1	+1	+4	+3	+1	+2	+1	+3	+1	+2
17	+4	−1	+1	+6	+4	+4	+3	+3	+4	+5	+2	+2	+2	+4	+4	+3
18	+5	0	+2	+7	+4	+5	+4	+4	+5	+6	**+3**	+2	+3	+5	+4	+4
19	+5	+1	+3	+8	+5	**+5**	+4	+5	+5	+6	+2	+1	+2	+5	+5	+4
20	+5	+1	+3	+7	+5	+5	+5	+5	+5	+6	+1	+1	+2	+5	+5	+4
21	+5	0	+3	+7	+4	+5	+5	+5	+5	+6	0	0	+1	+5	+5	+4
22	+5	−1	+3	+6	+3	+6	+5	+4	+5	+6	−1	−1	+1	+5	+4	+3
23	+3	−1	+3	+6	+3	+5	+5	+4	+4	+7	−1	−1	0	+5	+4	+3
Non-cyclic change. (24h—oh.)	−1·5	−1·5	+4·4	−2·8	+4·2	−5·7	−6·1	+2·9	+1·8	−8·3	+2·9	+4·4				

DIURNAL VARIATION OF I, 1930.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
0	+0·5	+0·4	+0·5	+0·6	+0·6	+0·7	+0·8	+0·4	+0·6	+0·2	+0·3	+0·1	+0·3	+0·5	+0·6	+0·5
1	+0·4	+0·2	+0·7	+0·8	**+1·0**	**+1·2**	**+1·0**	**+0·9**	+1·0	+0·4	0	0	+0·1	+0·7	**+1·0**	+0·6
2	+0·3	+0·2	**+0·8**	+0·8	+1·0	+1·0	+0·4	+0·7	**+1·5**	**+0·8**	−0·2	−0·5	−0·1	**+1·0**	+0·8	+0·6
3	+0·5	+0·3	+0·4	−0·1	+0·1	+0·1	−0·2	+0·3	+1·0	+0·2	−0·3	−0·5	0	+0·4	+0·1	+0·1
4	+0·4	+0·1	−0·8	−1·5	−1·1	−1·2	−0·9	−0·4	−0·7	−0·9	−0·5	−0·6	−0·1	−1·0	−0·9	−0·7
5	−1·2	−0·3	−1·6	−2·3	−2·2	−2·1	−1·5	−1·4	−2·4	−1·7	−0·9	−0·9	−0·8	−2·0	−1·8	−1·5
6	**−2·7**	−1·2	**−2·3**	**−2·9**	**−2·8**	**−2·4**	**−1·8**	**−1·9**	**−3·5**	**−2·4**	**−1·0**	**−1·2**	**−1·5**	**−2·8**	**−2·2**	**−2·2**
7	−2·2	**−2·0**	−2·1	−2·9	−2·6	−2·2	−1·7	−1·8	−3·0	−2·3	−0·8	−0·7	−1·4	−2·6	−2·1	−2·0
8	−1·0	−1·7	−1·3	−2·0	−1·8	−1·8	−1·1	−1·2	−1·9	−1·5	−0·4	−0·1	−0·8	−1·7	−1·5	−1·3
9	−0·7	−1·0	−0·5	−0·8	−0·8	−1·1	−0·6	−0·8	−0·5	−0·5	−0·1	+0·1	−0·4	−0·6	−0·8	−0·6
10	−0·5	−0·7	+0·1	+0·1	0	−0·1	0	−0·3	+0·5	+0·2	−0·2	+0·1	−0·3	+0·2	−0·1	−0·1
11	−0·2	0	+0·3	+0.3	+0·4	+0·4	+0·2	+0·1	+0·7	+0·3	−0·1	+0·1	−0·1	+0·4	+0·3	+0·2
12	0	+0·3	+0·1	+0·4	+0·6	+0·6	+0·3	+0·1	+0·5	+0·3	+0·1	+0·2	+0·1	+0·3	+0·4	+0·3
13	+0·2	+0·4	−0·2	+0·4	+0·5	+0·5	+0·2	+0·1	+0·3	+0·2	+0·2	+0·4	+0·3	+0·2	+0·3	+0·3
14	+0·3	**+0·7**	+0·2	+0·4	+0·5	+0·4	+0·3	+0·2	+0·5	+0·3	+0·3	+0·4	+0·4	+0·3	+0·3	+0·4
15	+0·5	+0·7	+0·3	+0·6	+0·6	+0·4	+0·4	+0·2	+0·6	+0·6	+0·4	+0·4	+0·5	+0·5	+0·4	+0·5
16	+0·6	+0·5	+0·5	+0·8	+0·7	+0·5	+0·4	+0·3	+0·7	+0·7	+0·4	**+0·5**	+0·5	+0·7	+0·5	+0·5
17	**+0·7**	+0·6	+0·6	+0·9	+0·8	+0·7	+0·5	+0·5	+0·6	+0·8	+0·4	+0·5	+0·5	+0·7	+0·6	+0·6
18	+0·7	+0·6	+0·6	+0·9	+0·8	+0·7	+0·6	+0·5	+0·6	+0·8	**+0·5**	+0·5	**+0·6**	**+0·7**	+0·7	+0·7
19	+0·7	+0·5	+0·7	**+1·1**	+0·7	+0·8	+0·5	+0·7	+0·7	+0·7	+0·4	+0·3	+0·5	+0·8	+0·7	+0·7
20	+0·7	+0·6	+0·7	+1·0	+0·8	+0·7	+0·4	+0·7	+0·6	+0·8	+0·4	+0·3	+0·5	+0·8	+0·7	+0·6
21	+0·7	+0·4	+0·7	+1·1	+0·7	+0·7	+0·6	+0·7	+0·7	+0·7	+0·3	+0·4	+0·4	+0·8	+0·7	+0·6
22	+0·6	+0·3	+0·7	+1·0	+0·6	+0·7	+0·6	+0·6	+0·6	+0·7	+0·3	+0·3	+0·4	+0·7	+0·6	+0·6
23	+0·5	+0·2	+0·6	+0·9	+0·6	+0·6	+0·7	+0·6	+0·5	+0·7	+0·2	+0·2	+0·3	+0·7	+0·6	+0·5

DIURNAL VARIATION OF F, 1930.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
0	−4	−4	−9	−10	−6	−2	−3	−1	−1	−3	−7	−6	−5	−6	−3	−5
1	−1	−3	−8	−6	−5	+1	0	−1	+1	−1	−4	−5	−3	−3	−1	−3
2	+3	+1	−6	−1	−2	+2	+1	−3	+2	+1	+2	−1	+1	−1	−1	0
3	+9	+8	−2	+7	+2	+3	+2	−4	0	+2	+11	+7	+9	+2	+1	+4
4	+15	+17	+4	+16	+9	+6	+4	−5	0	+4	+15	+11	+14	+6	+4	+8
5	**+16**	+20	+14	+26	+16	+13	+11	+2	+6	+7	+20	+12	**+17**	+13	+10	+13
6	+11	**+22**	+23	**+27**	**+22**	**+15**	**+15**	+6	+10	+14	**+21**	**+14**	+17	+19	+15	+17
7	+12	+21	**+28**	+26	+22	+13	+15	+14	+15	**+18**	+19	+12	+16	**+22**	+16	+18
8	+11	+20	+28	+21	+21	+12	+13	**+20**	**+16**	+17	+13	+8	+13	+21	**+17**	+17
9	+4	+17	+22	+12	+17	+10	+11	+18	+15	+12	+3	+7	+8	+15	+14	+12
10	+3	+8	+14	+2	+13	+6	+4	+13	+9	+6	−2	+3	+1	+8	+9	+6
11	−5	+1	+6	−5	+6	+2	−2	+8	+1	−1	−5	+1	−2	+1	+4	+1
12	−7	−4	−3	−6	+1	−3	**−10**	+1	−7	−7	−5	−1	−4	−6	−3	−4
13	−4	−7	−8	−6	−4	−7	−9	−3	−8	−8	−6	−4	−5	−7	−6	−6
14	−3	−11	−8	−9	−12	**−9**	−8	**−8**	**−9**	−7	−7	−4	−6	−8	−9	−8
15	−5	−15	−8	−12	**−14**	−9	−9	**−9**	−8	−9	−7	−4	−8	−9	−11	−9
16	**−8**	−16	−11	**−14**	−14	−9	−7	−7	−8	**−10**	**−8**	−5	−9	**−11**	−9	**−10**
17	−8	**−18**	**−12**	−11	−12	−8	−5	−7	−7	−9	−8	−6	**−10**	−9	−8	−9
18	−7	−14	−12	**−8**	−11	−6	−5	−4	−7	−7	−8	**−7**	−9	−8	−7	−8
19	−5	−11	−11	−9	−6	−7	−3	−5	−6	−6	−7	−5	−7	−8	−5	−7
20	−5	−11	−11	−8	−7	−6	−2	−7	−4	−5	−8	−6	−7	−7	−6	−7
21	−5	−10	−11	−11	−8	−6	−4	−7	−4	−3	−7	−6	−7	−7	−7	−7
22	−5	−9	−10	−11	−9	−5	−5	−6	−4	−3	−7	−7	−7	−7	−6	−7
23	−6	−7	−9	−9	−9	−4	−5	−5	−2	−2	−8	−7	−7	−6	−6	−6

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JANUARY. 0° PLUS TABULAR QUANTITIES.

Date.	Hours. (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	7·6	7·2	7·2	6·3	6·6	7·7	8·4	8·2	7·5	7·0	6·6	6·6	7·1	7·1	6·8
2	8·3	8·3	8·3	7·5	6·7	6·4	7·9	9·3	8·9	7·9	7·3	7·3	7·4	7.4	7·1
3	7·9	7·8	7·3	6·6	6·4	7·4	8·4	9·0	8·5	8·2	6·8	6·4	6·5	7·1	6·3
4	7·9	8·2	7·9	7·4	7·4	7·3	7·4	7·9	7·3	6·3	6·2	7·1	6·9	6·9	5·9
5	7·3	7·4	7·3	7·0	6·1	6·7	7·4	7·4	7·2	6·4	6·4	6·2	6·0	7·1	6·5
6	7·3	7·9	8·2	7·9	7·3	7·1	7·2	6·4	5·7	5·9	6·2	6·3	6·3	6·4	5·1
7	7·4	8·0	7·5	6·5	6·3	6·7	7·7	7·8	6·5	6·2	5·9	5·0	6·5	6 4	5·5
8	8·0	8·0	7.5	6·8	5·7	6·3	7·6	8·0	5·8	6·3	6·2	6.2	6 4	6·6	6·5
9	7·5	7·5	7·5	7·0	6·7	7·5	8·4	9·2	8·2	8·1	7·9	7·1	6·6	6 6	6·8
10	7·5	7·5	7·4	6·2	4·7	4·4	6·3	7·7	8·8	8·5	8·3	7·3	7·1	6·8	6·8
11†	7·3	7·3	7·4	6·5	4·6	4·4	6·2	6·8	6·0	6·0	6·9	7·3	7·2	7·1	7·3
12†	7·8	7·9	7·9	6·2	**4·2**	4·4	5·8	7·3	7·3	7·3	7·3	7·3	7·3	7·4	7·2
13	8·0	8·2	8·3	7 9	6·3	5·6	6·5	7·6	7·6	7·3	7·5	7·4	7·1	7·1	7·1
14†	7 1	7·4	7·9	7·3	5·7	4·2	4·8	6·2	6·3	6·3	7·3	7·3	7·3	7·3	7·3
15	7·5	7·8	8·3	7·8	5·9	5·0	5·8	8·0	7·9	7·2	7·3	7·0	6·8	7·6	7·5
16	7·4	7·9	8·1	7·1	5 8	5.1	7·4	8·9	8·6	8·4	7·9	7·4	7·5	8·1	7·5
17	8·0	8·3	7·8	6 3	5·2	5·6	6·8	8·0	8·0	7·9	8·2	8·2	8·3	8·4	8·3
18	7·3	7·8	8·0	7·7	6·3	6·8	8·8	9·4	8·8	8·2	8·2	7·4	7·3	7·3	7·3
19	7 2	7·8	7·3	6·7	5 3	6·3	8·1	9·0	8·9	7·7	7·4	7·4	7·3	7·8	7·3
20	7·8	7·5	7·4	6·7	5·2	5·2	7·7	9·3	9·3	8·4	7·4	6·9	7·1	7·2	7·0
21	7·1	7·1	7·2	7·2	7·3	7·8	9·1	8·5	7·5	8·1	7·8	7·3	7·3	7·3	7·1
22	7 0	7·1	7·3	6·8	6·0	5·8	7·2	8·5	8·6	8·2	7·2	6·3	6·2	6·5	7·1
23	7·1	7·6	7 1	7·0	6·0	7·1	8·6	**9·5**	9·2	8·9	8·1	7·3	7·1	7·1	6·9
24	7·2	7·5	7 7	7·0	5·4	5·7	7·1	8·2	8·0	7·3	7·3	7·1	7·0	7·0	7·0
25	7·1	7·1	7 3	6·6	6·2	7·2	8·9	9·3	9·1	7·8	7.7	7·4	7·3	7·3	7·0
26†	7·3	7·7	7·6	7·1	6·3	6·1	7 6	8·3	7·7	6·9	7·0	7·1	7 1	7·1	7·0
27†	7·6	7 7	7 8	6·8	6 0	5·1	6·1	8·0	7·9	7·9	7·8	7·3	7·3	7·3	7·2
28	7·7	7·9	8·0	7·9	5·6	5·0	6·4	7·6	7·3	6·3	6.1	6·0	6·6	7·1	7·1
29	7·9	8·1	8·2	7·3	5·9	5·6	6·0	7·3	8·0	8·7	8·3	8·2	8·1	7·7	7·1
30	8·2	8·3	8·5	7·8	6·2	5·3	5·9	6·8	7·4	7·4	6·7	6·3	5·8	6·0	6·3
31	7·6	8·1	8·1	8·2	7·0	6·6	6·8	7·2	7·0	6·9	6·6	6·6	7·1	7·4	7·2
Mean . .	7·5	7 7	7·7	7·1	**6·0**	6·1	7·2	**8·1**	7·8	7·4	7·2	7·0	7·0	7·1	6·9
Mean† . .	7·5	7 7	7·9	6·9	5·4	**4·8**	6·2	7·5	7·1	6·9	7·3	7·3	7·2	7·2	7·2

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1	7·7	7·8	7·9	7·9	7·2	7 2	7·7	8·3	8·2	7·7	7·2	7·2	7·0	6·9	6·3
2	7·9	8·1	8·2	7·7	6·5	6·3	6·5	7·5	8·3	8·2	7·8	7·8	7·1	7·6	8·0
3	8·7	9·1	8·7	7·7	6·6	6·7	6·6	9·0	8·3	8·2	7·2	6·5	6·3	7·0	6·6
4	8·2	8·2	8·1	7·2	6·6	6·7	8·1	9·2	8·4	7·7	7·6	7·2	7·1	7·7	7·6
5	8·5	8·7	8·4	7·6	6·7	6·7	7·3	8·3	8·7	8·3	8·4	8·2	7·6	7·3	7·0
6†	8·3	8·7	8·9	8·8	8·3	8·3	9·2	**10·5**	10·4	9·9	9·2	8·6	7·9	7·7	7·5
7	8·6	8·8	8·6	8·1	6·8	5·6	5·9	7·2	8·1	8·4	8·6	8·4	8·0	7·6	7·3
8†	8·1	8·4	8·3	7·4	6·6	6·3	6·7	8·0	8·8	8·8	8·4	7·8	7·2	7·2	7·2
9†	7·9	8·0	8·0	6·8	6·9	6·4	6·3	7·2	7·4	7·4	7·8	8·0	7·8	7·4	7·2
10†	8·2	8·2	8·3	8 0	7·4	7·3	7·3	8·1	8·2	8·0	8·1	8·2	7·9	7·2	6·9
11	8·8	8·9	8·9	8·4	8·1	8·0	8·1	8·5	8·5	8·3	8.1	8·1	8·1	7.9	7·5
12	8.3	8·6	8·4	8·6	7·7	7·6	7·6	8·0	8·3	8·6	8·7	8·9	8·3	9·2	9·0
13	6·7	6·6	7·8	7·9	7·1	7·1	7·4	8·1	8·1	7·3	6·7	6·6	5·5	6·5	6·6
14	6·5	6·7	7·1	7·5	7·2	7·2	7·6	7·7	7·5	7·5	7·0	7·1	7·0	6·9	6·5
15	7·7	8·3	8·0	7·5	6·7	6·5	7·0	6·9	7·4	8·1	7·7	6·8	6·5	7·7	7·4
16	7·4	7·7	7·7	8·1	7·7	7·5	8·4	9·2	9·1	8·2	8·1	7·2	7·3	7·3	7·1
17	7·3	6·9	6·8	6·6	5·7	6·3	6·9	7·6	8·2	7·8	7·6	7·6	7·1	7·0	7·0
18	7·7	7.8	7·8	7·2	5·8	6·6	7·7	7·7	8·1	8·2	8·1	8·2	7·9	8·0	7·3
19	7·1	7·4	7·4	7·1	6·6	6·3	6·4	7·5	8·4	8.2	8·0	8·0	7·9	7·7	7·5
20	7·0	7·5	7·8	7·2	6·0	5·7	6·2	7·4	8·4	8·4	8·3	8·2	7·5	7·5	7·5
21	6·7	6·9	7·0	7·3	6·9	6·8	7·3	8·5	8·7	8·1	7·9	7.7	7·7	7·8	7·7
22†	6·8	7·3	7·7	7·3	6·7	6·5	6·5	7·4	8·0	7·2	6·8	6·9	7·2	7·6	7·8
23	6·5	7·1	8·0	7·7	6·9	6·7	6·8	7·2	7·0	7·3	6·9	6·7	6·9	7·7	7·4
24	7·9	8·0	7·9	7·0	6·7	6·2	6·9	8·0	8·5	8·4	7·4	7·3	7·1	7.2	7·0
25	8·8	8·0	8·0	7·2	6·4	6·1	6·3	7·1	7·1	7·4	6·5	6·1	6·0	6·0	6·3
26	8·1	8·1	7·4	6·5	6.2	6·5	7·6	8·3	8·8	8.5	8·0	8·0	7·7	8·0	7·8
27	7·9	8·0	7·8	7·1	6·8	7·0	8·1	9·2	9·1	8.5	7·1	6·4	6.2	7·0	7·2
28	8·0	7·5	7·1	6·8	6·6	7·6	9·2	9·6	9·9	8·9	7·6	6·9	6·8	7·3	6·3
Mean . .	7·7	7·9	7·9	7·5	6·8	**6.8**	7·3	8·1	**8·3**	8·1	7·7	7·5	7·2	7·4	7·2
Mean† . .	7·9	8·2	8·3	7·7	7·2	**6.9**	7·2	8·3	**8·6**	8·3	8·1	7·9	7·6	7·4	7·3

† Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JANUARY. 0° PLUS TABULAR QUANTITIES.

Hours. (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
6·8	7·2	7·3	7·1	7·2	7·7	7·5	7·5	7·9	7·3	3 50	6·2	6 10	8·5	1
7·2	7·3	7·3	7·4	7·3	7·4	7·3	7·4	7·6	**7.6**	4 10	6.2	7 2	9·4	2
6·6	6·4	6·5	6·8	6·4	6·2	6·4	7·5	7·8	7·1	10 34	5·9	7 20	9·1	3
6 4	6·4	6·2	6·2	6·1	6·3	6·4	6·4	7·1	6·9	14 0	5·3	1 0	8.3	4
5 8	5·7	6·2	6·1	6·3	6·3	6·8	6·8	7·0	**6·6**	15 34	5·5	7 16	7·5	5
6·2	6.4	6·9	6·8	6·6	7·2	7·1	7·2	7·3	6·8	14 18	5·0	1 58	8·3	6
5·6	6·9	6·7	6·3	6·3	6·3	6·7	7·2	7·6	6·7	10 58	4·4	0 40	8·0	7
6·5	6.4	6·5	7·2	7·2	7·1	7·2	7·2	7·4	6·8	4 26	5·4	6 46	8·1	8
7·2	7·4	7·4	7·4	7·3	7·4	7·5	7·5	7·6	7·5	3 40	6·3	6 52	9·3	9
6·7	6·7	7·2	7·2	7·1	7·1	6·9	6·9	7·1	7·0	4 20	3·7	8 14	8·9	10
7·3	7·1	7·2	7·1	7·1	7·1	7·3	7·4	7·5	6·8	4 20	**3·7**	2 20	7·6	11†
7·0	6·7	7·2	7·3	7·3	7·3	7·3	7·3	7·4	7·0	4 22	3·8	1 26	8·0	12†
6 8	6.8	6·9	6·6	6.5	6·5	6·5	6·9	7·0	7·1	5 0	5·0	2 20	8·4	13
7·1	7·1	7·3	6·7	6·6	6·8	6·8	6.6	7·3	6·8	5 0	4·1	2 20	8·1	14†
7·3	7·2	7·4	7·3	6·8	6·6	6·6	6·9	7·0	7·1	5 14	4·7	1 58	8·3	15
7·5	7·5	7·4	7·4	7·4	7·4	7·5	7·7	8.1	7·5	4 40	4·7	7 10	9·1	16
8·2	7·5	7·4	6·6	6·3	6·2	6·2	6·5	6·0	7·3	4 22	4·8	1 0	8·4	17
7 3	7·3	7·2	7·1	6·7	6·2	7·3	6·9	7·1	7·5	4 18	5·7	7 18	9·5	18
7·3	7·5	7·3	7·1	7·1	7·1	7·2	7·3	7·2	7·4	4 19	5·0	7 0	9·1	19
7·2	7·3	7·2	7·2	7·0	6·5	6·2	6·1	6·3	7·1	4 20	4·9	7 16	9·3	20
7·0	7·3	7·2	7·1	7·2	7·2	7·0	7·2	6·9	7·4	21 26	6·8	6 10	9·1	21
7·1	7·1	7·2	7·2	7·2	7·2	7·1	7·2	7·2	7·1	4 50	5·7	7 18	**8·7**	22
6·6	7·0	7·0	7·1	7·1	7·1	7·0	6·9	6·9	7·4	4 10	5·9	7 0	**9.6**	23
7·0	7·0	7·0	7·1	7·2	6·7	6·7	7·0	7·0	7·1	4 18	5·3	7 28	8·3	24
7·0	7·0	7·1	7·1	7·1	7·1	7·3	7·3	7·3	7·4	3 56	6·1	7 0	9·3	25
7·1	7·1	7·1	7·1	7·1	7·1	7·1	7·1	7·3	7·2	4 40	6·0	6 40	8·4	26†
7·1	7·1	7·1	7·1	7·1	7·1	7·1	7·1	7·2	7·2	5 0	5·2	7 10	8·1	27†
7·1	7·1	7·1	7·1	7·0	7·0	7·1	7.2	7·9	7·0	5 0	4·0	2 10	8·1	28
7 0	7·0	6·9	7·0	7·1	6·8	7·0	7·3	7·4	7·3	5 0	5·5	9 0	8·8	29
6·2	7·3	7·3	7·3	7·3	7·3	7·3	7·4	7·4	7·0	5 10	5·2	1 40	8·6	30
6·9	7·2	7·1	7·1	7·2	6·9	6·9	7·2	7·5	7·2	4 6	6·6	2 20	8·3	31
6·9	7·0	7·1	7·0	6·9	6.9	7·0	7·1	7·3	7·1					Mean.
7·1	7·0	7·1	7·0	7·0	7·0	7·0	7·0	7·2	7·0					Mean†

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6·3	7·1	6·3	6·7	6·9	7·2	7·2	7·2	7·3	7·3	14 0	6·1	7 0	8·4	1
7·8	7·8	7·3	7·3	7·3	7·8	7·8	7·9	8·3	7.6	5 10	6·1	7 50	8·6	2
7·2	7·2	7·2	7·5	7·2	7·2	7·6	7·7	8·1	7.5	11 50	6·1	8 0	9·1	3
7·6	7·7	7·7	7·6	7·6	7.6	7·7	8·2	8·3	7·7	4 2	6·0	7 0	9·2	4
7·0	7·0	7·6	7.6	7·6	7·7	7·9	8·1	8·2	7·8	4 26	6·3	0 40	8·8	5
7·1	7·1	7·2	7·7	7·7	7·8	7·9	8·2	8·5	**8·4**	16 0	6·9	7 20	**10·6**	6†
7·0	6·7	7·2	7·3	7·2	7·4	7·7	7·8	7·9	7·6	5 10	5·5	1 2	8·9	7
6·6	6.5	6·7	6·8	6·7	6·8	7·0	7·3	7·7	7·4	5 0	6·0	8 18	8·9	8†
7·2	7·2	7·3	7·4	7·5	7·6	7·8	8·0	8·1	7·5	5 20	6·1	22 58	8·3	9†
7·1	7·5	7 5	7·6	7·8	7·9	8·0	8·1	8·5	7·8	13 50	6·8	22 50	8·6	10†
7.5	7·5	7·6	7·6	7·6	7·6	7·7	7·7	7·8	8·0	15 0	7·4	1 10	9·0	11
8·2	7·9	7·5	7·1	7·1	7·0	6·8	6·7	5·8	7·9	23 26	**4·9**	13 26	9·3	12
6·8	7·2	6·9	6·1	5·8	**5·3**	6·0	6·6	6·2	6·8	20 0	5·1	7 22	8·4	13
5·6	6·7	7·0	6·9	7·1	6·9	7·4	7·2	7·7	7·1	15 6	5·3	7 10	7·8	14
6·7	6·5	6·8	6·7	7·4	7·4	6·7	7·0	7·6	7·2	5 10	6·2	1 0	8·4	15
6·4	6·9	7·1	7·1	7·1	7·0	7·9	7·7	7·2	7·6	15 10	6·3	7 16	9·3	16
6·6	6.5	7·0	6·8	7·0	7·1	7·5	7·5	7·6	7·1	4 10	5·5	8 14	8·4	17
7·3	7·2	7·1	6·3	7·0	7·1	7·1	7·0	7·0	7·4	4 14	5·4	8 50	8 4	18
7·5	6·8	6·6	6·9	6·8	7·0	6·8	6·8	6·9	7·2	5 0	6·2	8 18	8·6	19
7·5	7·3	7·0	6·8	6·7	6·4	6·6	6·7	6·7	7·2	5 0	5·5	8 10	8·6	20
7·6	7·6	7·6	7·5	7·1	7·1	7·0	6·8	6·7	7·4	4 18	6·6	7 50	8·9	21
7·6	7·5	7·7	7·4	7·3	7·0	6·9	6·6	6·4	7·2	5 20	6·3	7 50	8·1	22†
7·0	7·0	7·2	7·1	7·0	7·1	7·0	7·0	7·4	7·1	11 10	6·3	2 10	8·2	23
6·8	6·9	7·2	7·4	7·3	7·4	7·5	7·7	7·7	7·4	5 10	6·1	8 10	8·6	24
5·8	6·2	6·6	5·9	7·0	7·2	7·9	8·0	7·8	**6·9**	14 50	5·4	0 10	8·2	25
7·6	7·3	6 5	7·3	7·5	7·5	7·6	7·5	7·6	7·6	4 10	6·1	8 10	8·9	26
7·2	7·2	7·2	7·9	7·6	7·5	7·2	7·6	8·0	7·5	12 0	6·0	7 10	9·3	27
6·5	7·4	6.9	6·9	7·1	7·2	7·4	8·7	7·8	7.6	14 29	5·8	7 50	10·1	28
7·0	7·1	7.1	7·1	7·2	7·2	7·3	7·5	7·5	7·5					Mean.
7·1	7·1	7·2	7·3	7·4	7·4	7·5	7·6	7·8	7·6					Mean†

* The daily mean value of declination derived from 24 hourly values has been corrected for progressive change by 1/48th of the difference between the values of the initial and terminal hours.

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

MARCH. 0° PLUS TABULAR QUANTITIES.

Date.	Hours. (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	7·9	7·6	6·9	6·5	6·8	7·2	8·4	9·2	9·3	8·7	6·7	6.5	6·8	6·9	6·9
2	8·2	7·4	7·4	6·7	5·9	5·9	7·2	8·6	8·9	8·2	6·5	6·7	6·7	7·2	7·0
3	7·9	7·9	6·8	5·8	6·4	7·5	8·5	8·9	8·7	7·7	7·7	7 9	7·7	7·9	7·7
4	7·9	8·1	8·1	7·6	7·3	7·1	8·0	9·0	9·5	9·0	8·4	8·0	7·8	7·2	7·2
5†	8·1	8·2	7·9	7·2	7·1	7·2	8·0	8·6	8·7	8·5	8·3	7·7	7·5	7·9	7·7
6	7·7	7·7	7·4	6·5	6·1	6·5	7·5	8·5	9·2	8·5	7·7	7·0	7·0	7·9	8·0
7†	8·0	7·9	7·4	7·1	6·8	7·4	8·4	9·3	9·2	8·3	7·3	6·7	6·9	8·0	8·0
8†	8·3	7·8	7·5	7·2	7·2	7·6	8·5	9·1	8·8	8·4	7·5	7·1	6·9	7·6	8·1
9†	8·0	7·9	7·2	6·3	6·2	7·0	8·1	8·3	8·1	7·5	6·8	6·9	7·4	8·0	8·5
10†	8·5	8·5	8·0	7·1	7·5	8·1	8·9	9·7	9·5	8·7	7·9	7·2	7·1	7·5	8·2
11	8·1	8·1	7·5	7·1	7·2	8·5	10·1	11·1	**11·6**	10·5	9·5	8 8	8·5	8·5	8·5
12	7·8	7·4	7·3	5·7	6·2	7·2	7·1	8·5	7·8	7·4	7·2	7·7	6·9	5·8	7·3
13	6·9	7·0	7·0	6·6	6·3	7·7	9·5	10·4	9·6	9·2	8·2	7·9	8·3	7·5	7·3
14	6·9	7·1	6·4	5·5	5·5	6·6	7·9	9·2	9·8	9·0	7·6	7·1	7·0	7·0	6·9
15	7·4	7·4	7·0	6·1	6·2	7.2	8·4	9·4	9·5	9·4	7·9	7·4	7·4	7 4	7·4
16	7·8	7·4	7·1	6·1	6·1	6·9	7·9	10·1	10·7	9·5	8·7	7·4	6·9	7·0	7·9
17	7·4	7·4	7·0	6·6	6·3	6·4	7·5	9·1	10·0	9·0	7·8	6·6	6·6	6·9	7·4
18	7·3	7·3	6·2	5·4	5·5	6·6	7·9	9·2	9·7	9·3	8·8	8·2	7·9	7·8	7·7
19	6·8	6·9	6 8	6·6	6·4	6·8	7·2	7·7	8·3	7·8	7·7	7·2	7·1	7·2	7·5
20	7·1	7·1	6·3	6·1	6·2	6·5	7·2	8·2	8·3	8·3	7·8	7·3	7·1	7·4	7·2
21	7·5	7·2	6·3	5·7	5·9	6·2	6·9	7·9	8·6	8·1	7·2	7·1	7·2	7·9	7·9
22	7·1	6·9	6·5	7·1	7·4	7·8	8·9	9·1	8·9	8·1	7·0	7·0	7·5	7·9	8·1
23	7·5	7·4	6·9	6·3	6·1	6·4	7·8	8·8	9·1	8·8	8·2	8·0	8·2	8·4	8·3
24	7·8	7·8	7·7	7·7	7·7	8.1	9·4	10·5	9·6	8·0	7·6	7.0	7·0	6·8	6·7
25	7·8	7·6	7·1	7·0	7·0	7·8	8·4	9·4	9·5	9·2	8·3	8·1	8·2	8 1	7·3
26	8·2	8·3	7·7	6·7	6·0	5·8	6·8	7·9	8·7	8·6	7·8	7·5	7·4	7·8	7·3
27	7·9	8·0	7·3	6·3	6·0	5·7	6·5	8·0	7·7	7·7	8·1	7·3	7·2	7·2	7·3
28	8·0	8·1	7·1	6·4	6·5	6·5	7·8	8·6	9·3	9·0	8·2	7·3	6·7	6·9	6·6
29	8.1	8·4	7·7	6·4	5·6	5·4	6·8	8·8	9·4	8·8	7·7	6·2	6·1	7·1	7·2
30	7·4	7·4	7·7	6·4	6·6	7·1	7·8	8·9	9·5	8·8	7·7	6·8	6·8	7·3	7·8
31	7·5	7·3	6·6	5·6	**5·4**	6·2	7·2	8·1	8·9	8·5	7·4	7·1	7·2	7·3	7·5
Mean .	7·7	7·6	7·2	**6·5**	**6·4**	6.9	7·9	9·0	**9·2**	8·6	7·8	7·3	7·3	7·5	7·6
Mean† .	8·2	8·1	7·6	**6·9**	6·9	7·4	8·4	**9·0**	8·9	8·3	7·5	7·1	7·1	7·8	8·1

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1	7·4	7·4	6·4	5·6	5·9	6·2	7·2	8·4	8·9	8·5	7·9	7·3	7·0	6·8	6·6
2	7·5	7·6	7·2	5·9	5·9	5·9	6·7	7·9	9·0	8·9	8·2	7·6	7·4	7·9	7·9
3†	7·5	**7·3**	6·3	5·7	6·2	6·8	7·9	9·2	10·3	10·1	9·2	8·6	8·6	8·4	**7·9**
4†	7·5	**7·3**	**6·3**	5·4	5·2	5·6	6·8	8·4	9·0	9·2	8·5	8·0	7·5	7·8	**7·8**
5†	7·3	7·5	7·0	6·5	6·5	6·9	7·8	9·2	9·2	8·7	7·8	7·1	7·0	7·8	8·2
6	7·8	7·9	7·3	6·4	5·7	5·4	7·0	8·9	9·2	8·6	7·4	6·6	7·1	7·2	7·5
7	6·3	5·9	5·1	5·2	6·1	7·5	8·1	9·0	9·6	9·1	8·8	8·8	8·6	8·2	8·2
8	6·1	6·3	5·6	4·7	5·6	7·4	8·5	8·9	8·9	8·6	8·1	7·7	5·6	7·1	7·9
9	7·1	7·2	6·1	5·8	5·9	6·4	7·8	8·7	8·7	8·2	7·9	6·0	6·3	6·8	7·1
10	6·6	**6·3**	4·8	4·1	5·5	6·8	7·8	8·7	9·3	8·5	8·5	7·5	7·4	7·5	7·8
11	6·9	7·1	6·0	5·4	6·7	7·9	9·7	10·4	**10·6**	9·3	7·8	7·2	7·3	7·5	7·9
12	7·2	**6·2**	5·8	**5·0**	**4·9**	6·3	7·8	8·9	9·3	9·2	7·9	7·4	7·2	7·1	7·3
13	6·4	6·1	5·1	4·3	**5·7**	7·2	8·2	9·0	9·4	**8·3**	7·2	6·7	7·5	7·6	7·8
14	7·0	5·9	4·7	4·6	5·0	6·6	8·9	10·5	10.0	8·9	7·5	7·1	7·0	6·9	7·3
15	6·3	6·0	4·6	**3·1**	3·6	5·7	8·5	9·9	10·3	9·8	8·9	7·9	7·1	7·3	7·7
16	6·9	6·4	5·7	5·2	5·7	7·4	8·7	9·3	9·4	9·6	9·1	8·5	8·0	7·1	7·3
17	7·2	7·1	5·7	5·1	4·8	5·9	7·8	8·8	8·9	8·5	7·9	6·9	6·9	7·2	7·7
18	6·9	6.4	5·6	5·3	5·2	6·6	8·9	9·9	10·1	9·3	8·4	7·7	7·3	7·3	7·3
19	6·7	6·3	5·8	5·2	5·8	7·1	8·1	9·3	9·5	9·5	9·5	8·7	7·7	7·9	8·3
20	7·7	7·0	5·9	5·5	6.1	7·2	7·5	8·4	8·5	8·3	7·7	5·9	6·5	7·6	7·7
21	6·7	6·3	5·4	5·4	6·1	7·8	9·0	9·8	9·2	8·5	8·5	8·5	7·7	7·7	7·5
22	7·8	6·7	5·3	5·2	6·1	7·7	8·3	9·2	9·3	9·8	9·3	7·9	7·3	7·6	7·8
23	7·3	6·0	5·2	5·2	5·8	7·7	9·6	9·9	9·9	9·7	9·0	7·7	6·9	6·9	7·7
24	7·3	6·3	5·5	5·6	5·5	6·3	7·8	8·4	8·5	8·3	9·2	7·9	7·4	7·7	7·7
25	7·1	6·9	6·1	6·1	6·5	7·6	8·3	8·7	8·7	8·3	7·7	7·2	6·9	7·7	7·1
26	7·2	6·7	6·5	6·1	6·7	7·5	8·0	8·2	8·3	8·2	7·4	7·5	7·2	7·7	7·9
27†	7·0	6·0	5·0	5·0	5·8	7·5	8·6	9·5	8·9	8·4	7·4	7·1	6·8	6·5	7·5
28†	7·5	6·5	5·5	5·3	5·4	6·0	7·1	8·2	8·7	8·5	8·2	7·8	7·0	6·9	7·0
29	6·4	6·5	4·9	3·6	4·1	6·1	8·2	9·6	10·5	10·4	9·2	7·9	7·4	6·9	7·4
30	6·7	6·1	5·1	5·1	5·5	6·3	7·6	8·6	9·3	9·6	9·0	8·4	7·8	7·2	7·5
Mean .	7·1	6·6	5·7	**5·2**	5·7	6·8	8·1	9·1	**9·3**	9·0	8·3	7·6	7·3	7·4	7·6
Mean† .	7·3	6·9	5·9	**5·5**	5·8	6·5	7·6	8·9	**9·9**	9·0	8·2	7·7	7·3	7·5	7·7

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

MARCH. 0° PLUS TABULAR QUANTITIES.

Hours (G. M. T.).									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
6·7	6·9	6·6	6·8	6·8	7·4	7·5	7·9	8·1	7·4	2 50	6·0	7 50	9·4	1
6·7	7·1	7·2	7·4	7·2	7·5	7·7	7·7	7·7	7·3	3 58	5·3	7 38	9·1	2
7·8	7·9	7·7	7·5	7·5	7·7	7·7	8·1	7·8	7·7	3 10	5·5	7 10	9·2	3
7·1	7·6	7·7	7·9	7·8	7·9	7·9	7·9	7·9	7·9	3 48	7·1	8 0	9·3	4
7·6	7·5	7·6	7·6	7·6	7·5	7·5	7·6	7·7	7·8	3 48	6·9	8 0	8·9	5†
7·9	8·0	8·0	8·0	8·0	8·0	8·0	7·9	8·0	7·7	3 48	5·9	8 0	9·1	6
7·9	8·0	8·0	7·8	7·9	8·0	8·0	8·1	8·3	7·9	11 0	6·3	7 20	9·4	7†
8·0	8·1	8·3	8·3	8·3	8·3	8·2	8·2	8·3	8·0	3 0	6·9	7 0	9·2	8†
8·4	8·3	8·5	8·6	8·5	8·5	8·4	8·5	8·6	7·9	3 42	6·0	23 0	8.5	9†
8·2	8·3	8·3	8·3	8·2	8·2	8·2	8·2	8·0	8·2	3 46	6·5	7 20	9·9	10†
8·3	8·3	8·2	8·0	8·0	7·7	6·4	6·4	6·6	8·4	21 0	6·2	7 50	11·7	11
7·2	6·9	7·0	6·9	6·5	6·6	7·0	7·1	7·0	7·0	12 30	4·5	7 0	9·0	12
7·3	7·1	8·3	6·9	6·7	7·1	6·3	7·2	7·0	7·6	21 10	6·2	7 0	10·5	13
7·0	7·1	7·6	7·3	7·1	6·6	6·7	6·6	7·2	7·2	3 38	5·3	8 10	9·9	14
7·4	6·9	7·0	6·9	7·2	7·5	7·7	7·9	7·5	7·6	3 10	5·7	8 0	9·6	15
7·9	7·5	7·6	7·7	7·9	7·4	6·7	6·8	7·1	7·6	3 46	5·9	7 52	10·8	16
7·3	7·3	6·7	7·2	7·1	7·3	7·3	7·4	7·4	7·4	4 4	6·1	8 0	10·1	17
7·4	7·6	7·7	7·6	7·2	6·7	7·1	7·1	6·8	7·5	3 38	5·2	8 0	9·8	18
7·4	7·4	7·4	7·3	7·3	7·3	7·3	7·3	7·1	7·3	3 50	5·9	8 0	8·3	19
6·9	6·9	7·2	7·4	7·5	7·6	7·2	7·2	7·8	7·3	3 0	6·1	8 0	8·4	20
7·7	7·3	7·2	6·6	6·5	6·4	6·9	6·6	7·3	7·1	3 0	5·5	8 0	8·9	21
8·0	7·2	6·7	7·3	6·9	7·5	7·6	7·7	7·7	7·6	2 0	6·0	7 0	9·2	22
8·4	8·3	8·2	7·9	7·3	6·8	7·2	7·3	7·3	7·7	3 40	6·0	8 0	9·4	23
6·8	7·4	7·5	7·5	7·4	7·3	7·3	7·5	7·7	7·7	13 44	6·0	7 0	10·6	24
6·9	6·4	7·1	7·1	7·1	7·2	7·4	7·5	8·2	7·7	16 0	6·3	7 46	9·8	25
7·5	7·6	7·3	7·3	7·0	7·1	7·3	7·5	7·8	7·4	4 50	5·5	8 40	8·8	26
7·0	7·1	6·5	6·6	6·7	6·4	6·6	7·1	7·3	7·1	4 20	5·5	7 26	8·3	27
7·4	7·7	7·8	7·7	7·7	7·6	7·6	7·9	7·9	7·6	3 40	6·3	7 38	9·5	28
7·2	7·2	7·3	7·3	7·3	7·3	7·3	7·5	7·4	7·3	4 10	5·2	7 40	9·5	29
7·8	7·7	7·7	7·1	7·3	7·1	7·3	7·3	7·5	7·5	2 50	6·3	7 50	9·6	30
7·5	7·4	7·5	7·4	7·3	7·4	7.3	7·3	7·3	7·3	4 10	5·3	8 20	9·0	31
7·5	7·5	7·5	7·5	7·4	7·4	7·4	7·5	7·6	7·6					Mean.
8·0	8·1	8·1	8·1	8·1	8·1	8·1	8·1	8·2	7·9					Mean†.

APRIL.

6·6	7·5	6·8	7·1	7·2	7·3	7·4	7·9	7·4	7·2	3 10	5·3	8 10	9.1	1
7·8	7.5	7·4	7·3	7·2	7·2	7·3	7·5	7·6	7·4	4 10	5·5	8 20	9·2	2
7·7	7·6	7·7	7·8	7·8	7·5	7·5	7·4	7·6	7·9	3 0	5·4	8 10	10·5	3†
7·9	7·9	7·9	7·4	7·3	7·3	7·2	7·1	7·2	7·4	3 44	5·0	9 0	9·5	4†
8·2	8·0	7·8	7·8	7·6	7·5	7·0	7·6	7·7	7·7	3 40	6·3	8 10	9·4	5†
6·2	5·8	6·5	6·3	6·2	6·3	6·1	5·3	5·6	6·8	22 20	4·6	7 40	9·4	6
7·8	7·3	6·7	6·7	6·6	6·1	5·8	6·5	6·3	7·3	2 22	4·3	8 10	9·8	7
7·8	7·1	6·9	7·1	6·9	7·3	7·3	7·1	6·5	7·1	3 0	4·4	7 10	9·5	8
7·8	7·3	7·3	7.0	7·3	7·0	6·6	6·0	6.3	7·0	11 10	5·5	7 6	8·9	9
7·3	7·3	7·3	7·1	6·6	6·8	7·2	6·8	6·7	7·1	3 0	3·7	7 50	9.5	10
7·9	7·7	7·4	7·0	7·1	7·0	6·7	6·0	6·8	7·6	2 50	5·2	7 40	10·9	11
7·4	7·5	7·3	7·2	6·6	6·1	6·5	6·5	7·2	7·1	3 38	4·5	7 38	9·4	12
7·7	7·7	7·1	7·0	6·8	6·9	6·9	6·9	6·9	7·1	3 0	4·1	7 38	9·5	13
7·7	7·2	7·2	7·2	6·7	6·2	6·2	6·3	5·9	7·0	2 34	4·3	7 20	10·7	14
7·3	7·1	7·2	7·1	6·7	6·7	6·9	6·7	6·9	7·1	3 4	2·6	8 10	10·5	15
8·0	7·8	7·7	7·3	7·2	7·1	6·8	7·0	7·8	7·5	4 15	5.0	8 50	9·7	16
7·7	7·8	7·7	7·4	7·2	7·1	6·7	6·8	7·2	7·2	3 42	4·4	7 50	9·1	17
7·2	6·9	7·2	6·9	6·6	6·3	6·2	6·3	6·4	7·2	3 42	4·9	7 40	10·2	18
7·9	8·0	8·1	7·1	6·8	7·2	7·2	7·2	7·3	7·6	5 0	5·1	7 38	9·8	19
6·6	6·8	6·7	6·3	6·3	7·1	6·8	6·8	6·8	7·0	2 46	5·3	6 46	8·7	20
7·5	7·5	7·7	7·3	6·9	6·7	6·6	7·4	7·7	7·5	2 10	5·2	6 58	10·5	21
8·0	7·7	6·7	6·7	6·7	6·7	6·4	6·7	7·3	7·4	2 58	5·1	7 50	9·9	22
7·7	7·7	7·2	7·2	6·4	6·7	6·5	6.3	7·5	7·4	5 0	5·1	6 40	10·0	23
7·8	6·7	7·1	7·1	7·0	7·1	6·9	7·1	7·2	7·2	2 0	5·4	8 20	8·6	24
7·2	7·6	7·6	7·6	7·4	7·6	7·3	7·3	7·3	7·4	2 50	5·7	7 58	9·5	25
7·7	7·7	7·7	7·2	7·1	7·3	7·1	7·2	7·0	7·4	4 6	5·7	7 58	8·6	26
7·2	7·2	7·3	7·3	7·0	7·0	7·1	7·1	7·5	7·1	5 0	4·9	7 10	9·7	27†
7·6	7·5	7·4	7·6	7·5	7·2	7·4	7·2	7·4	7·2	5 30	5·2	8 10	9·1	28†
7·4	7·5	7·5	7·5	6·9	6·9	6·7	7·2	6·7	7·2	5 18	3.3	8 20	10·7	29
7·9	8·0	7·7	6·4	6·8	6·8	6·7	6·7	6·8	7·2	2 34	4·9	9 0	9·7	30
7·5	7·4	7·3	7·1	6·9	6·9	6·8	6·9	7·0	7·3					Mean.
7·7	7·7	7·6	7·6	7·5	7·3	7·3	7·3	7·5	7·5					Mean†.

*See footnote on page 91.
†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

MAY. 0° PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	6·7	5·9	4·8	4·5	4·7	6·0	7·4	9·4	10·4	10·4	9·8	9·0	8·1	7·9	7·9
2†	7·1	6·3	5·1	4·3	4·2	5·1	6·7	7·9	8·5	8·8	8·7	7·9	7·3	7·3	7·8
3†	7·2	7·2	6·7	6·7	6·7	7·8	8·8	9·7	9·9	9·5	8·8	7·9	7·2	6·7	6·8
4	7·3	6·6	5·5	4·4	4·5	5·5	6·5	7·5	8·3	8·1	8·1	7·9	7·6	7·3	7·7
5	4·6	5·1	5·2	4·5	5·4	6·4	8·4	8·9	9·7	9·3	8·4	7·4	7·4	6·5	6·7
6	6·1	5·7	5·5	5·8	5·4	6·8	8·6	9·3	9·7	8·9	7·8	7·3	7·5	6·0	7·3
7	5·5	4·5	5·1	5·5	5·3	6·7	8·4	9·2	9·9	9·7	8·7	8·2	7·9	7·4	7·4
8	5·3	6·1	5·0	5·0	5·3	6·1	7·4	8·6	9·3	8·6	8·1	7·7	7·2	7·1	7·0
9	6·5	5·9	6·1	6·3	6·3	7·1	8·8	10·0	10·1	9·5	8·8	8·6	7·1	6·3	6·6
10	6·3	5·7	5·1	5·1	5·1	5·9	6·7	7·8	8·7	9·3	8·7	7·7	7·6	6·9	7·1
11	6·5	5·8	5·6	5·6	6·7	7·3	8·7	9·7	9·7	8·7	7·7	7·1	6·5	6·6	7·2
12	6·2	5·6	4·5	4·7	5·3	6·9	8·5	9·2	9·6	9·1	8·0	6·7	6·4	6·7	7·7
13	5·8	6·2	5·7	5·7	6·0	6·7	8·2	9·2	8·9	8·3	7·3	6·7	6·6	7·2	7·1
14	6·3	5·7	4·8	4·5	5·0	6·4	7·8	8·3	8·6	8·3	8·0	7·9	7·1	7·1	7·3
15	6·4	5·6	5·1	5·1	6·0	7·9	8·9	9·2	9·0	8·6	8·5	7·7	7·1	6·9	7·1
16	6·6	6·4	5·7	5·4	5·6	6·3	7·5	8·6	9·0	8·5	8·3	7·7	7·5	8·0	8·5
17	5·6	5·6	5·4	5·3	6·7	7·3	8·3	8·8	9·5	9·7	8·7	8·2	8·0	7·8	7·3
18	6·8	6·3	5·6	5·2	5·4	5·6	6·9	7·4	8·4	7·6	7·4	7·2	6·3	5·5	6·4
19	6·4	5·9	5·2	5·3	6·4	7·3	7·7	7·9	8·1	8·0	7·1	7·1	7·2	6·9	7·0
20	6·6	5·9	4·8	4·8	5·6	7·3	8·1	8·3	7·5	7·1	7·1	7·2	7·3	7 2	7·1
21	6·5	6·5	5·9	6·2	6·7	7·8	7·9	8·7	8·3	7·5	7·2	7·1	6·9	7·0	7·3
22	6·8	6·5	6·2	6·2	6·8	7·7	8·8	8·6	8·7	7·5	7·2	7·0	6·8	6·3	7·3
23	6·3	5·3	4·4	4·6	5·8	7·3	8·3	9·3	9·8	8·8	7·7	6·8	6·7	6·8	7·3
24†	6·3	5·3	4·8	4·7	5·1	6·1	7·3	8·1	8·5	8·4	7·4	6·8	6·8	6·6	7·2
25	6·7	5·4	4·5	4·5	5·9	7·6	8·7	8·9	9·0	7·8	6·9	6·7	6·8	6·7	7·1
26	6·5	5·4	5·0	5·2	6·1	7·2	8·1	8·2	8·7	8·1	7·2	6·3	5·6	5·8	6·6
27†	6·4	5·2	4·7	4·9	6·6	8·1	9·1	9·6	9·1	8·1	7·4	7·1	7·1	7·1	8·1
28†	7·4	6·1	5·2	4·8	5·4	6·7	8·1	8·8	8·9	8·8	7·8	7·2	7·0	6·9	6·7
29	6·5	5·4	4·9	4·9	5·6	7·0	8·8	10·1	11·1	9·5	8·5	7·9	7·2	7·1	7·5
30	6·2	5·3	4·6	4·3	4·5	6·4	8·5	10·2	**11·1**	10·5	9·7	9·1	8·0	7·2	7·5
31	3·4	**2·8**	2·9	2·9	3·4	5·7	8 1	9·6	10·1	9·9	9·9	9·1	8·5	7·5	7 5
Mean . .	6·3	5·7	5·1	**5·1**	5·6	6·8	8·1	8·9	**9·2**	8·7	8·1	7·5	7·2	6·9	7·3
Mean† . .	7·0	6·1	5·3	**5·1**	5·6	6·8	8·1	8·9	**9·0**	8·7	8·0	7·4	7·1	6·9	7·3

JUNE.

1	5·9	4·7	**3·5**	5·4	6·2	7·7	8·5	9·0	9·6	8·3	8·7	8·3	7·8	6·6	7·3
2	5·4	4·7	4·0	4·1	5·5	6·8	9·0	9·7	10·2	10·3	10·2	10·1	8·6	8·1	8·3
3	6·0	5·1	4·0	3·5	4·2	6·2	7·8	8·7	9·2	9·1	9·3	9·4	8·5	8·0	8·1
4	6·4	5·9	5·1	4·5	5·7	7·5	9·1	10·8	10·3	9·5	8·8	8·8	8·1	8·0	8·3
5	7·3	7·2	5·7	5·1	4·9	5·7	6·3	7·0	7·9	8·3	8·2	8·0	7·8	7·4	8·2
6	7·3	7·0	6·1	5·4	6·1	6·7	8·0	9·6	10·1	10·2	9·7	8·9	8·3	8·2	8·3
7	7·4	7·0	5·7	5·1	5·6	6·4	7·3	8·2	9·5	9·0	8·7	9·0	9·0	8·2	8·1
8	7·1	6·0	5·1	5·0	5·8	6·8	8·1	8·9	9·2	9·4	8·7	8·2	8·1	7·6	8·1
9	7·4	6·4	5·3	5·0	5·4	6·1	8·3	9·7	10·1	10·0	9·2	8·9	8·5	8·3	8·2
10	7·1	6·1	5·5	5·1	5·6	7·0	8·1	9·2	10·1	10·0	9·4	8·8	8·5	8·4	8·5
11†	7·6	7·0	6·1	6·2	7·1	8·8	9·8	10·7	10·5	10·1	9·1	8·3	8·1	8·0	8·1
12	7·2	7·1	6·0	5·0	5·8	5·8	6·9	8·8	9·8	10·4	9·5	9·4	8·7	8·1	8·7
13	7·2	7·0	5·9	5·7	7·2	8·7	9·4	9·3	9·3	10·1	9·9	8·2	8·0	7·9	8·1
14	7·1	6·9	5·9	4·9	5·4	6·3	7·5	9·1	10·2	9·7	9·2	8·7	8·6	8·5	8·6
15†	7·6	7·1	6·0	5·4	5·7	7·0	8·0	8·5	10·1	10·3	9·8	9·3	8·8	8·1	8·5
16	8·0	7·1	6·0	5·3	5·4	6·2	7·6	8·1	8·5	8·2	8·2	8·0	8·1	6·2	7·6
17	7·2	8·1	7·0	6·5	6·6	6·7	7·5	9·1	10·1	10·3	9·7	9·4	8·8	8·3	8·3
18	7·2	6·4	5·6	5·5	5·6	6·7	7·6	9·3	9·9	9·9	9·4	9·1	8·3	7·6	7·6
19	7·3	6·5	5·5	5·0	5·1	6·0	7·7	9·0	9·9	10·1	9·2	8·6	8·7	8·0	7·7
20	7·2	7·0	5·3	4·5	4·5	5·8	7·7	9·9	10·4	10·7	10·4	9·9	9·7	8·8	8·3
21	7·7	7·1	6·3	5·6	5·7	6·1	7·8	9·3	9·9	9·8	9·0	8·9	8·7	7·8	8·0
22	7·2	6·6	5·7	5·2	6·0	7·1	8·4	9·4	9·6	9·3	8·8	8·7	8·3	8·3	8·6
23†	7·6	6·9	6·1	6·0	6·8	7·5	8·3	9·3	9·7	9·4	9·1	9·2	8·6	8·1	8·3
24†	7·3	6·6	5·4	5·2	6·6	8·5	9·8	10·2	10·7	10·1	9·7	8·6	7·8	7·9	8·6
25†	7·6	6·7	6·1	6·1	6·4	6·7	7·9	8·9	9·5	10·1	9·3	8·3	7·5	7·6	8·3
26	7·3	6·4	6·0	6·0	6·5	7·7	8·7	8·9	9·8	10·4	10·2	9·7	8·5	7·7	7·8
27	7·2	6·6	6·7	7·5	8·0	8·7	9·5	10·8	11·2	11·0	10·0	9·1	8·1	8·5	9·4
28	5·5	5·2	4·6	4·3	5·2	7·2	9·5	11·2	**11·8**	11·3	10·3	9·5	9·1	8·5	9·2
29	6·5	5·6	5·0	4·9	6·2	7·8	9·5	10·5	10·4	10·0	9·3	9·1	9·0	8·2	8·4
30	6·7	6·2	5·1	4·6	4·4	5·6	7·7	9·0	10·3	10·5	10·1	9·3	8·5	7·6	8·1
Mean .	7·1	6·5	5·5	**5·3**	5·8	6·9	8·3	9·3	**9·9**	9·9	9·4	8·9	8·4	7·9	8·3
Mean† .	7·5	6·8	5·9	**5·7**	6·5	7·7	8·7	9·5	**10·1**	10·0	9·4	8·7	8·2	7·9	8·3

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

MAY. 0° PLUS TABULAR QUANTITIES.

Hours (G. M. T.).									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
7·8	7·6	7·4	7·3	7·3	7·1	6·9	6·9	6·8	7·4	3 42	4·5	8 0	10·5	1
7·8	7·9	7·8	7·8	7·5	7·4	7·2	7·2	6·8	7·1	3 42	4·1	9 0	8·9	2†
6·8	7·3	7·6	7·5	7·6	7·3	7·3	7·3	7·4	**7·6**	3 20	6·5	8 20	10·0	3†
8·0	7·8	7·4	6·8	6·1	5·8	5·6	5·2	5·2	6·6	3 0	4·3	8 20	8·5	4
7·4	7·3	7·2	6·7	6·5	6·6	6·3	6·7	6·2	6·9	3 0	4·4	7 54	9·8	5
7·2	7·2	7·0	7·0	6·8	6·7	6·7	6·6	6·5	7·1	4 6	5·2	7 50	9·8	6
7·1	6·8	6·7	6·7	7·0	6·2	6·1	5·9	5·7	7·0	1 20	4·4	7 46	10·1	7
7·1	6·7	6·7	6·4	6·5	6·5	6·5	6·6	6·6	6·8	2 20	4·9	8 0	9·5	8
7·1	7·0	7·2	7·0	6·4	6·7	6·2	6·1	6·2	7·2	1 20	5·7	8 14	10·2	9
7·2	7·2	7·1	6·9	6·7	6·6	6·6	6·6	6·6	6·9	3 20	4·9	9 0	10·2	10
7·2	7·4	7·3	7·1	7·1	7·1	6·3	6·5	6·1	7·1	1 18	5·4	7 40	9·8	11
7·5	7·6	7·5	7·1	6·7	6·4	6·2	6·1	6·3	6·9	2 20	4·5	8 10	9·8	12
7·7	7·4	7·1	7·1	6·6	6·5	6·5	6·4	6·6	7·0	2 20	5·6	7 0	9·3	13
7·3	7·2	7·0	7·0	6·9	6·6	6·5	6·6	6·6	6·9	2 50	4·4	7 40	8·8	14
7·6	7·3	7·2	7·1	6·9	6·7	6·2	6·3	6·6	7·1	2 20	5·0	6 40	9·2	15
8·6	7·4	7·5	5·6	6·6	5·8	5·6	6·1	6·5	7·0	3 0	5·3	7 40	9·2	16
7·0	7·0	7·1	7·0	6·8	7·0	7·2	7·0	7·7	7·4	2 50	5·2	8 40	9·8	17
7·2	7·1	6·5	6·5	6·4	6·3	6·4	6·4	6·4	**6·5**	3 20	5·1	8 0	8·5	18
7·6	7·4	7·4	7·4	6·6	6·7	6·7	6·5	6·5	6·9	1 54	5·0	7 38	8·2	19
7·2	7·1	7·2	7·1	7·1	6·8	6·5	6·4	6·5	6·8	2 34	4·7	6 38	8·4	20
7·6	8·2	7·0	6·7	6·6	6·8	6·4	7·0	6·8	7·1	2 26	5·9	7 20	8·9	21
7·4	7·2	7·2	7·1	6·8	6·6	6·7	6·6	6·7	7·1	2 20	6·1	7 50	8·9	22
7·5	7·3	7·3	6·9	6·7	6·8	6·8	6·7	6·7	7·0	2 18	4·2	8 0	9·9	23
7·4	7·3	7·1	7·0	6·9	6·7	6·4	6·5	6·7	6·7	2 38	4·7	8 26	8·7	24†
7·3	6·9	6·8	6·7	6·7	6·8	6·3	6·5	6·7	6·8	2 10	4·3	7 0	9·1	25
6·9	7·0	6·8	6·5	6·7	6·7	6·7	6·7	6·8	6·7	2 2	4·9	7 38	8·7	26
8·2	8·1	7·7	7·6	7·5	7·5	7·5	7·6	7·6	7·4	2 20	4·6	7 10	9·7	27†
6·8	7·0	7·0	7·1	7·1	6·7	6·8	6·8	6·8	6·9	3 0	4·7	8 20	9·0	28†
7·6	7·7	7·4	7·4	6·8	6·7	6·6	6·5	6·5	7·3	3 0	4·9	7 50	11·1	29
8·0	7·8	7·2	6·9	6·5	5·8	5·4	5·4	4·4	7·1	3 20	4·2	7 50	**11·2**	30
8·1	8·6	7·9	6·6	5·9	6·5	5·6	4·7	5·4	6·7	1 26	**2·6**	7 34	10.2	31
7·5	7·4	7·2	6·9	6·8	6·7	6·5	6·5	6·5	7·1					Mean
7·4	7·5	7·4	7·4	7·3	7·1	7·0	7·0	7·0	7·2					Mean†

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7·6	7·4	7·1	6·5	6·6	5·9	5·9	5·9	5·9	**6·9**	2 10	3·3	7 38	9·7	1
8·3	7·9	7·7	7·2	7·2	6.4	6·4	6·1	6·0	7·4	1 46	3·9	8 50	10·4	2
8·0	7·6	7·5	7·3	7·2	7·3	7·1	6·9	6·9	7·2	3 0	**3·3**	10 54	9·5	3
8·2	7·9	7·5	7·3	7·3	7·2	7·7	7·2	7·2	7·7	2 50	4·4	7 0	10·9	4
8·2	8·1	8·0	7·3	7·3	7·3	7·3	7·2	7·4	7·2	3 54	4·7	9 10	8·4	5
8·4	8·4	7·9	7·9	7·5	7·7	7·5	7·4	7·3	7·9	3 10	5·2	9 0	10·3	6
8·1	8·2	8·2	7·4	7·3	7·1	6·7	6·4	6·8	7·8	2 34	4·9	8 20	9·5	7
8·7	8 7	8·1	8·1	7·6	7·6	7·3	7·0	7·4	7·6	2 34	4·9	9 6	9·5	8
8·2	8·1	8·1	8·0	7·7	7·2	7.2	7·5	7·3	7·7	3 18	4·8	7 38	10·2	9
8·6	8·3	8·2	7·8	7·6	7·6	7·3	7·4	7·6	7·8	3 10	4·9	8 10	10·2	10
8·1	8·1	7·9	7·6	7·1	7·1	7.1	7·1	7·1	8·0	2 8	6·0	7 4	10·5	11†
8·9	8·1	7·7	7·1	7·2	6·4	7·2	7·5	7·5	7·7	3 26	4·9	8 52	10·5	12
7·7	7·6	7·8	7·1	7·2	7·2	7·1	7·2	7·3	7·8	3 0	5·6	8 58	10·2	13
8·6	8·6	8·5	8·1	8·1	7·7	7·6	7·6	7·6	7·9	2 44	4·7	8 2	10·3	14
8·9	8·9	8·6	8·2	8·0	8·0	7·9	8·0	8·0	8·1	3 20	5·4	9 0	10·4	15†
8·5	8·5	8·2	7·8	7·8	7·8	7·6	7·0	7·1	7·4	3 50	5·2	8 24	8·6	16
8·5	8·4	8·3	7·9	7·5	7·6	7·2	7·3	7·3	8·1	3 10	6·4	9 22	10·3	17
8·1	8·0	7·7	7·7	7·0	7·2	7·3	7·4	7·3	7·6	2 14	5·5	8 10	9·9	18
8·0	7·9	8·1	8·0	7·9	7·7	7·3	7·4	7·7	7·7	3 10	5·0	8 42	10·1	19
8·1	8·1	8·1	7·9	7·8	7·7	7·5	7·6	7·6	7·9	3 50	4·3	8 45	10·9	20
8·1	7·9	8·0	8·2	8·1	8·1	8·0	7·9	7·6	7·9	3 14	5·6	7 40	10·0	21
8·7	8·4	8·4	8·2	7·9	7·7	7·7	7·7	7·6	7·9	3 0	5·0	7 42	9·7	22
8·3	8·2	8·2	8·1	8·1	8·1	8·0	7·9	7.4	8·1	2 42	5·9	8 14	9·8	23†
8·7	8·7	8·6	8·0	8·1	8.1	8·0	8·0	7·9	8·2	3 0	5·1	8 0	10·7	24†
8·4	8·9	8·5	8·5	8·2	8.2	8·1	8·0	7·9	8·0	2 10	5·9	9 0	10·2	25†
8·4	8·7	8·5	8·5	8·5	8·1	8·1	7·9	7·5	8·1	2 20	5·9	9 10	10·5	26
9·2	8·9	8·3	8·1	7·8	7·3	6·9	6·4	5·7	**8.3**	0 50	5·6	8 10	11·3	27
9·1	8·9	8·2	7·7	7·2	7·1	6·8	6·9	6·8	8·0	2 50	4·2	8 22	**12·0**	28
9·2	8·9	8·0	8·1	8·0	7·3	7·1	7·2	6·9	8·0	3 0	4·8	7 6	10·6	29
8·7	8·3	8·2	7·8	7·9	7·4	7·2	7.2	7·3	7·7	3 38	4·2	8 34	10·6	30
8·4	8·3	8·1	7·8	4·6	7·4	7·3	7·3	7·2	7·8					Mean
8·5	8·6	8·4	8·1	7·9	7·9	7·9	7·8	7·7	8·1					Mean†

*See footnote on page 91.
†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JULY. 0° PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	7·4	6·7	5·9	5·7	5·9	6·1	7·5	8·3	9·5	10·2	10·2	9·3	8·8	8·7	8·3
2	7·2	6·5	5·7	5·2	5·3	5·9	6·7	7·3	7·5	7·8	8·3	8·5	8·4	8·9	8·7
3	7·0	6·5	5·6	5·8	6·6	7·7	8·5	9·3	10·0	9·9	9·5	9·3	9·2	8·4	9·3
4	6·7	6·0	6·0	5·8	6·2	6·6	7·6	8·4	8·5	9·0	8·8	8·0	8·2	8·3	8·0
5	7·6	6·9	6·5	6·6	6·6	6·7	7·8	9·2	9·9	9·8	9·1	8·9	8·3	8·3	8·4
6	7·1	6·4	5·3	5·2	5·7	7·2	8·3	9·0	8·9	8·6	8·8	8·8	8·4	8·5	8·3
7	7·5	6·3	5·5	4·9	5·5	6·6	7·8	8·4	8·8	8·5	8·3	8·3	8·3	8·5	8·4
8†	7·3	6·5	5·9	5·7	6·1	7·1	8·3	9·3	9·7	9·7	9·3	8·8	8·5	8·6	8·6
9	7·7	7·2	6·1	6·0	6·4	7·2	8·9	10·5	**11·3**	11·0	10·0	9·1	8·5	8·4	8·8
10	6·6	6·9	6·7	6·7	8·2	8·5	8·7	9·3	9·5	9·7	9·9	9·2	8·2	8·5	8·6
11	7·6	6·7	6·0	5·3	6·4	7·8	9·1	9·9	9·4	8·9	8·5	8·1	8·1	8·0	8·3
12	7·2	6·7	6·2	6·2	7·1	7·3	7·3	8·8	9·8	9·6	9·4	8·5	8·2	8·2	8·3
13	7·5	6·5	5·8	6·3	6·8	7·4	8·3	9·5	10·1	10·3	9·4	8·8	8·2	7·1	8·3
14	7·5	6·9	6·4	6·2	6·9	7·7	8·6	9·2	9·6	9·5	9·1	8·7	7·9	7·6	8·2
15	7·6	6·8	6·6	6·4	6·7	7·5	9·1	10·2	10·5	9·8	8·9	8·3	8·0	7·9	8·4
16	7·3	6·8	6·5	6·4	7·3	8·1	9·6	10·2	10·8	10·0	9·3	8·8	8·1	8·1	8·9
17	7·4	6·8	6·6	6·6	7·1	8·3	8·9	9·5	9·3	8·3	7·7	7·3	7·5	7·7	7·6
18	7·3	6·9	6·3	6·7	7·3	8·4	8·8	9·0	9·0	8·9	8·9	8·9	9·1	9·1	9·0
19	7·7	7·5	6·7	6·7	6·6	6·8	8·4	9·3	9·3	8·3	7·4	7·5	8·2	8·5	8·2
20†	7·2	6·8	6·5	6·5	6·6	7·6	7·9	8·5	8·6	8·9	8·6	8·2	8·4	8·6	8·7
21†	7·5	7·2	6·8	7·0	7·1	7·7	8·4	8·7	8·6	7·9	7·8	8·2	8·7	8·8	8 8
22†	7·8	7·4	7·6	7·9	8·3	8·5	9·0	9·3	9·2	9·1	8·6	8·1	7·9	8·2	8·2
23†	7·8	6·7	6·2	7·6	8·8	9·5	9.5	9·5	9·8	9·7	8·4	8·0	8·1	8·6	8·9
24	7·8	6·7	5·8	5·9	6·6	7·7	8·5	8·8	9·3	9·9	9·7	8·8	8·1	7·8	8·5
25	6·7	5·6	5·6	5·8	6·2	7·4	9·1	9·4	10·2	9·9	8·9	8·1	8·3	8·4	8·3
26	6·2	5·3	5·0	5·0	6·8	8·5	10·0	10·0	10·1	9·2	8·4	7·5	7·3	7·8	7·9
27	6·9	5·8	5·2	5·9	6·9	8·5	9·6	10·2	10·8	10·7	9·6	8·7	8·2	8·3	8·9
28	7·6	6·7	5·6	5·6	7·1	8·0	9·7	10·9	11·2	10.8	10·2	9·5	8·6	8·0	8·3
29	7·3	6·0	4·9	**4·6**	6·1	8·5	9·3	11·0	11·2	10·5	9·8	9·5	8·4	8·6	9·1
30	7·3	6·7	5·7	5·6	6·3	7·1	8·9	9·7	9·9	9·9	9·2	8·7	8·3	8·4	8·9
31	7·0	6·9	6·5	6·7	7·4	8·2	8·9	9·6	10·0	9·5	8·8	8·9	8·8	8·7	9·1
Mean .	7·3	6·6	**6·1**	6·1	6·7	7·6	8·6	9·4	**9·7**	9·5	9·0	8·6	8·3	8·3	8·5
Mean† .	7·6	7·0	**6·7**	7·0	7·4	8·1	8·7	9·1	**9·2**	9·1	8·5	8·3	8·3	8·5	8·6

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1	7·5	6·8	6·3	6·5	7·2	7·2	8·1	9·3	9·4	**9·5**	9·6	9·6	9·3	8·9	8·9
2†	7·8	7·4	7·0	7·4	7·7	8·5	9·6	10·4	10·4	9·8	8·7	7·9	8·3	8·3	8·1
3†	7·6	7·1	6·8	6·9	7·5	8·1	9·0	9·8	10·0	10·0	9·8	9·3	9·0	9·0	9·0
4†	7·5	6·9	6·7	6·7	7·0	8·0	8·5	8·8	9·2	9·6	9·1	8·5	8·3	8·6	8·9
5	7·5	6·9	6.1	6·1	6·6	7·9	8·8	9·5	10·0	9·7	9·4	9·1	9·2	9·1	9·6
6	6·9	6·9	5·7	5·7	6·4	6·9	7·6	8·3	8·0	8·4	8·1	8·3	7·7	6·9	7·8
7	7·8	6·8	6·1	6·0	6·1	7·0	8·0	8·6	8·9	8·8	8·1	7·9	7·4	7·6	8·0
8	7·8	7·4	6·9	6·9	7·0	8·2	9·2	10·0	10·5	10·2	9·9	8·6	8·4	7·7	7·2
9	7·1	6·5	5·6	6·4	7·8	9·0	9·2	9·3	9·2	8·8	7·9	7·4	7·5	7·9	8·2
10	7·6	7·0	6·7	6·9	7·5	8·3	9·6	10·1	10·2	9·0	8·6	8·0	7·9	7·2	7·5
11	8·0	7·9	7·1	7·0	7·8	8·5	9·3	9·3	8·5	8·1	7·0	6·9	7·4	7·5	8·1
12	7·9	7·0	6·6	7·1	8·0	9·9	10·1	10·4	9·9	9·6	8·6	8·1	6·8	6·8	7·6
13	7·3	6·9	6·0	6·5	7·7	8·1	9·2	9·3	9·3	9·1	8·6	8·3	7·8	7·7	8·2
14	8·1	7·6	7·2	7·2	8·3	9·7	10·6	11·0	10·5	9·7	8·7	8·3	7·9	8·0	8·5
15	7·5	7·2	6·6	6·3	6·8	7·2	8·2	9·1	9·1	8·8	8·0	7·1	7·0	7·0	7·2
16	7·6	6·8	6·2	6·3	7·2	8·4	9·5	9·5	9·1	7·8	7·8	7·7	7·8	7·8	8·2
17†	8·4	7·4	6·4	6·4	7·0	8·0	9·1	10·1	10·1	10·0	9·5	9·1	8·5	8·3	8·8
18	8·4	8·0	7·0	6·4	7·2	8·7	9·3	9·7	10·0	9·7	9·2	8·6	8·0	7·9	8·2
19	8·4	7·5	6·9	7·0	7·9	8·7	9·5	10·0	10·0	9·5	9·6	9·0	8·0	8·0	8·1
20	8·0	7·1	6·9	7·5	8·4	9·6	10·3	11·0	11·0	10·3	9·2	8 8	8·7	8·6	8·8
21	7·8	6·9	6·0	6·1	7·0	7·8	8·9	9·7	10·1	10·0	9·5	9·4	9·1	9·2	9·5
22	7·3	7·0	5·9	6·1	7·7	8·9	9·6	9·5	9·8	9·4	8·5	7·5	7·3	7·8	8·8
23	7·5	7·0	6·0	6·1	7·5	8·9	10·1	10·4	10·4	10·6	10·2	9·2	8·7	8·9	8·6
24	7·4	6·3	5·4	6·2	7·8	10·2	11·6	12·4	12·3	11·4	9·9	8·4	8·3	8·5	8·6
25	7·8	7·0	5·8	5·7	7·1	9·4	11·3	**12·5**	12·5	11·9	10·9	9·9	8·9	8·5	8·7
26	8·0	7·2	5·4	**5·1**	6·5	8·5	10·5	12·0	12·1	11·4	10·2	8·5	7·8	7·9	8·6
27	8·0	7·5	6·6	6·7	7·5	8·7	9·7	10·3	11·0	10·9	10·1	9·0	8·4	8·1	8·7
28†	8·2	7·2	6·2	6·3	6·7	8·0	9·7	11·3	11·3	11·2	10·5	9·5	8·7	8·3	8·5
29	7·9	7·4	6·2	6·1	7·1	8·6	9·7	10·5	11·0	10·7	10·2	9·2	8·3	8·2	8·5
30	7·4	6·3	6·1	6·3	7·7	9·5	10·5	10·6	10·3	9·6	9·4	8·9	8·5	8·4	8·7
31	7·2	6·9	6·0	5·8	6·6	8·4	10·3	11·2	11·5	11·0	10·0	8·8	8·2	8·4	8·8
Mean .	7·7	7·1	**6·3**	6·4	7·3	8·5	9·5	10·1	**10·2**	9·8	9·2	8·5	8·2	8·1	8·4
Mean† .	7·9	7·2	**6·6**	6·7	7·1	8·1	9·1	10·1	**10·2**	10·1	9·5	8·9	8·5	8·5	8·7

† Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JULY. 0° PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
8·2	8·2	8·1	8·2	7·7	7·2	7·2	7·1	7·2	7·8	3 10	5·5	9 10	10·4	1
8·8	9·2	8·9	8·2	7·9	7·2	6·4	6·2	6·8	7·4	3 0	5·0	15 50	9·4	2
8·4	8·4	8·3	7·9	7·9	7·5	6·8	7·0	7·0	8·0	2 10	5·5	8 20	10·1	3
8·5	8·7	8·3	8·4	8·3	7·9	7·5	7 3	7·1	7·7	2 46	5·7	8 42	9·2	4
8·3	8·3	8·1	7·9	7·5	7·5	7·4	7·3	7·2	7·9	2 12	6·3	8 2	10·1	5
8.4	8·4	8·2	8·0	7·9	7·8	7·8	7·6	7·5	7·8	2 34	5·0	6 40	9·3	6
8·4	8·4	8·3	8·2	8·0	7·9	7·7	7·2	7·3	7·6	3 0	4·7	8 10	9·1	7
8·6	8·5	8·3	7·8	7·9	7·9	7·8	7·7	7·9	8·0	3 0	5·5	8 18	9·8	8†
9·3	9·8	9·4	8·9	8·3	7·1	6·9	7·1	7·3	8·4	2 50	5·9	8 0	**11·5**	9
8·8	8·5	7·9	7·9	7·7	7·6	7·6	7·6	7·6	8·2	1 46	6·5	9 10	10·1	10
8·2	8·2	8·2	8·1	8·1	7·3	7·2	7·3	7·3	7·8	3 6	5·1	6 50	10·1	11
8·3	8·3	8·5	8·2	8·0	7·7	7·9	7·7	7·5	8·0	2 44	6·0	8 0	9·9	12
7·9	7·5	7·9	7·7	7·4	7·2	7·3	7·3	7·4	7·8	2 0	5·8	8 50	10·4	13
8·2	8·3	8·4	8·2	8·0	7·9	7·7	7·7	7·7	8·0	3 0	6·0	7 40	9·7	14
8·5	8·2	8·3	8·3	8·2	7·9	7·7	7·7	7·6	8·1	3 0	6·2	8 10	10·7	15
9·2	8·4	8·5	8·3	7·7	7·5	7·3	7·0	7·2	8·2	3 0	6·4	8 0	11·1	16
8·0	8·1	8·3	8·2	8·2	7·8	7·7	7·8	7·4	7·8	2 10	6·4	7 20	9·8	17
8·7	8·6	8·5	8·5	8·2	8·1	8·0	7·9	7·7	8·2	2 0	6·1	12 20	9·2	18
8·7	8·7	8·7	8·6	8·3	8·0	7·8	7·7	7·3	7·9	3 40	6·5	7 0	9·4	19
8·9	8·9	8·8	8·7	8·6	8·4	7·9	7·7	7·5	8·1	1 50	6·4	16 0	9·2	20†
8·8	8·8	8·8	8·4	8·2	8·1	7·9	7·7	7·8	8·1	2 20	6·7	12 40	9·0	21†
8·5	8·6	8·6	8·6	8·4	8·4	8·3	8·4	8·2	**8·4**	1 20	7·2	7 0	9·5	22†
8·4	8·5	8·4	8·3	8·3	8·1	8·1	7·9	7·9	8·4	1 50	6·1	8 20	9·9	23†
8·7	8·6	8·6	8·2	8·3	8·5	7·8	8·1	7·7	8·1	2 2	5·7	9 10	10·1	24
8·6	8·7	8·1	7.9	7·6	7·5	7·1	7·0	6·6	7·8	1 0	5·4	8 16	10·3	25
8·8	8·8	8·7	8·3	8·3	7·9	7·8	7·6	7·3	7·9	2 2	4·8	8 0	10·3	26
9·0	8·9	8·7	8·3	8·2	8·0	7·9	7·8	8·0	8·3	1 46	5·1	8 26	11·1	27
8·5	8·5	8·5	8·2	8·1	7·9	7·7	7·4	7·3	8·3	2 20	5·5	8 10	11·4	28
8·9	8·9	8·7	8·4	7·9	7·3	7·2	6·9	7·2	8·2	3 10	**4·4**	7 50	11·4	29
9·0	9·1	8·7	8·4	8·0	7·8	7·7	7·8	7·4	8·1	3 0	5·4	7 36	10·1	30
9·2	8·8	8·7	8·4	8·2	7·6	7·5	7·6	7·6	8·3	2 20	6·3	8 0	10·2	31
8·6	8·6	8·5	8·3	8·1	7·8	7·6	7·5	7·4	8·0					Mean.
8·6	8·6	8·5	8·3	8·3	8·1	7·9	7·8	7·8	8·2					Mean.†

AUGUST.

8·9	8·9	8·8	8·7	8·2	8·0	7·9	7·9	7·9	8·3	**2** 20	6·9	10 0	9·7	1
9·0	9·1	8·8	8·7	8·3	7·9	7·8	7·7	7·7	8·4	**2 10**	**6·9**	7 38	10·6	2†
9.0	8·9	8·8	8·5	8·3	8·1	7·8	7·7	7·3	8·5	2 20	6·6	8 20	10·1	3†
9·1	8·9	8·7	8·3	8·2	7·9	7·7	7·6	7·5	8·2	3 0	6·5	9 0	9·8	4†
9·7	9·7	9·0	8·9	8·0	7·5	7·5	7·8	7·8	8·4	3 0	5·9	8 0	10·2	5
7·4	8·2	8·0	7·6	8·8	8·1	8·2	7·7	7·4	**7·6**	3 10	5·6	21 10	9·6	6
8·1	8·8	8·9	8·2	8·6	7·9	7·7	8·0	7·9	7 8	2 40	5·8	16 50	9·2	7
8·3	8·6	8·1	8·3	7·7	7·5	7·7	7·1	7·1	8·2	2 20	6·7	8 20	10·7	8
8·1	8·7	8·4	8·3	8·2	7·9	7·6	7·2	7·4	7·9	1 56	5.5	7 20	9·5	9
8·0	8·3	7·7	8·1	7·9	7·5	7·5	7·6	7·9	8·0	2 2	6·7	7 50	10·3	10
7·9	8·3	8·5	8·5	8·3	7·9	8·0	7·9	7·6	8·0	3 0	6·4	6 40	9·5	11
8·4	7·7	8·2	8·1	8·1	7·8	7·5	7·9	7·5	8·1	12 20	6·4	7 0	10·5	12
8·7	8·9	8·6	8·5	8·4	8·1	8·1	7·9	8·1	8·2	2 20	5·8	6 38	9·5	13
8·8	8·7	8·5	8·4	8·3	8·2	8·0	7·7	7·6	8·6	2 26	7·0	6 40	11·1	14
7·4	7·9	8·3	8·3	8·3	8·2	8·0	7·9	8·0	7·7	3 2	6·0	7 50	9·3	15
8·5	8·0	8·0	8·0	7·8	8·2	8·4	8·3	8·4	8·0	2 26	6·1	6 50	9·6	16
9·0	9·1	8·8	8·5	8·2	8·3	8·3	8·2	8·3	8·5	2 40	6·1	7 10	10·3	17†
8·8	8·9	8·9	8·6	8·5	8·3	8·3	8·6	8·5	8·5	2 50	6·2	8 0	10·1	18
8·5	8·5	8·2	8·4	8·6	8·3	8·2	8·1	8·1	8·5	2 20	6·6	8 0	10·2	19
8·7	8·6	8·5	8·6	8·3	8·3	8·2	7·7	7·9	8·7	1 36	6·6	7 10	11·2	20
9·9	9·8	9·8	9·0	8·2	7·3	7·1	7·3	7·3	8·4	2 0	5·7	8 10	10·2	21
8·8	8·9	9·0	8·8	8·4	8·3	8·0	7·7	7·8	8·2	2 0	5·6	7 34	9·9	22
8·3	8·4	8·5	8·5	8·5	8·4	8·1	7·7	7·5	8·5	2 6	5·8	8 44	10·7	23
8·5	8·3	7·9	8·1	8·3	8·4	8·4	8·0	7·9	**8·7**	2 2	5·2	7 26	12·5	24
8·9	9·1	9·2	9·0	8·5	8·5	8·5	8·4	8·2	**9·0**	2 40	5·6	7 20	**12·7**	25
8·7	8·8	8·7	8·7	8·4	8·5	8·4	8·4	8·5	8·6	2 46	**5·0**	7 34	12·3	26
8·6	8·6	8·3	8·4	8·4	8·4	8·2	8·3	8·4	8·6	2 26	6·3	8 20	11·1	27
8·7	8·7	8·5	8·3	8·2	8·0	7·9	7·9	7·9	8.5	1 22	6·0	6 10	11·4	28†
8·6	8·8	8·5	8·4	8·5	8·3	8·0	8·1	7·7	8·5	2 40	5·9	7 38	11·2	29
8·9	8·9	8·9	8·9	8·6	8·6	8·2	7·6	7·3	8·5	2 10	5·9	7 0	10·6	30
9·1	9·1	8·8	8·8	8·9	8·5	8·6	8·3	8·1	8·6	3 0	5·6	8 10	11·7	31
8·6	8·7	8·6	8·5	8·3	8·1	8·0	7·9	7·8	8·3					Mean.
9·0	9·0	8·7	8·5	8·3	8·1	7·9	7·9	7·8	8·3					Mean.†

*See footnote on page 91.
†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

SEPTEMBER. 0° PLUS TABULAR QUANTITIES.

Date.	Hours. (G.M.T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	7·9	7·5	6·3	6·3	6·7	7·9	8·6	9·7	9·6	8·4	7·5	7·1	6·9	5·6	7·2
2	7·4	6·9	6·2	6·0	6·9	8·0	8·6	9·4	9·3	8·7	7·6	7·5	7·9	8·3	9·3
3	8·2	7·7	6·8	6·5	8·6	9·4	10·1	9·9	10·1	9·3	8·8	8·1	7·1	7·4	7·0
4	8·0	7·6	6·0	6·3	7·2	8·7	9·7	10·3	10·3	10·0	9·3	8·5	8·4	9·1	9·2
5	8·1	7·2	6·3	6·3	7·3	9·6	10·8	11·1	10·2	9·9	9·5	8·6	7·7	8·5	8·2
6	8·0	7·3	6·2	6·1	7·3	8·9	10·3	10·4	9·9	9·3	8·2	6·6	7 8	8·4	8·5
7	8·2	7·5	6·6	6·3	6·9	8·8	10·7	11·9	11·3	10·6	9·2	8·1	7·8	7·8	7·7
8	7·9	6·7	5·5	5·5	6·9	8·6	9·8	11·2	11·5	10·5	9·3	8·5	8·3	8·4	8·3
9	8·2	7·2	5·6	5·3	6·5	8·3	9·7	10·7	11·2	11·2	9·3	7·8	7·4	7·4	7·7
10	8·0	7·4	6·0	5·7	6·4	8·0	9·5	10·3	10·5	10·1	9·3	8·3	7·4	7·4	7·8
11	8·5	7·7	6·1	5·2	5·6	7·3	9·3	11·0	11·7	11·4	10·1	8·6	7·7	7·9	7·9
12	8·1	7·2	6·0	6·1	7·6	9·6	10·9	11·7	11·9	11·0	10·1	9·0	8·2	8·3	8·4
13	7·7	7·1	5·5	4·9	5·6	6·6	9·2	10·9	11·2	10·8	9·9	8·8	8·1	8·0	8·1
14†	8·6	8·1	6·8	5·9	6·1	7·5	9·2	10·6	11·2	10·6	9·7	8·9	8·1	7·9	8·0
15†	8·3	7·9	6·7	5·9	6·2	7·9	9·7	10·7	10·5	9·8	8·6	7·9	7·8	8·2	8·3
16†	8·0	7·6	6·6	6·1	6·9	8·7	10·5	11·5	11·0	10·1	9·0	8·2	8·2	8·5	8·6
17	8·4	8·1	6·9	6·1	6·3	7·9	9·2	10·5	10·8	10·7	9·7	8·8	8·6	8·5	8·7
18	8·3	8·1	7·2	6·7	7·7	9·1	10·3	10·9	10·8	10·0	8·4	6·3	7·3	8·3	8·8
19	6·5	5·9	5·2	6·1	7·1	8·2	9·1	10·1	10·8	9·4	8·3	7·4	7·8	8·5	8·2
20	7·6	7·0	5·8	5·8	6·9	8·3	9·8	10·8	10·8	9·3	8·1	7·8	8·1	8·3	8·6
21	8·3	7·5	6·5	6·8	7·9	9·4	10·4	11·0	10·4	9·2	8·1	7·9	8·3	8·7	8·4
22	7·8	6·9	6·1	6·2	7·5	8·8	9·9	10·2	10·3	9·5	8·8	8·3	8·4	8·9	8·9
23	8·3	7.9	6·9	6·5	7·3	7·9	8·5	9·5	9·2	8·9	8·1	7·8	8·0	8·8	9·0
24	7·6	7·9	7·0	6·7	8·2	9·5	11·0	11·7	11·4	10·0	8·3	7·4	7·4	8·3	8·6
25	8·3	8·0	6·9	6·1	6·8	7·9	9·6	11·3	11·7	10·6	9·2	8·4	8·4	8·9	8·9
26†	8·2	8·1	7·1	6·4	8·0	8·5	10·3	11·8	11·6	11·2	9·9	9·0	8·4	8·8	8·9
27†	8·2	8·0	7·0	6·5	7·0	7·6	9·4	10·7	11·1	10·2	9·0	8·2	8·4	8·6	8·7
28	8·3	8·1	7·1	6·0	6·5	8·1	9·5	10·9	11·0	10·3	9·7	8·7	7·9	7·9	8·8
29	8·1	8·1	7·4	7·0	6·5	7·4	8·9	10·3	10·2	9·4	8·1	8·2	7·6	5·7	7·0
30	8·8	9·1	7·9	6·8	6·3	7·1	7·1	7·7	7·9	8·7	9·3	9·4	9·2	9·0	8·7
Mean	8·1	7·6	6·5	6·1	7·0	8·3	9·7	10·6	10·7	10·0	9·0	8·1	7·9	8·1	8·3
Mean†	8·3	7·9	6·8	6·1	6.8	8·0	9·9	11·1	11·1	10·4	9·2	8·4	8·1	8·4	8·5

OCTOBER.

1	8·2	8·1	7·3	6·1	6·0	7·1	8·7	8·9	9·1	9·3	7·6	7·5	7·6	8·0	8·3
2	8·3	7·7	6·3	5·9	6·7	7·8	8·6	9·3	10·1	9·9	8·9	8·1	7·6	8·2	8·8
3	8·9	8·7	7·6	6·5	6·9	7·3	8·3	9·3	9·6	9·4	8·5	7·1	7·8	8·3	7·4
4	8·9	8·2	7·1	6·5	6·6	7·7	9·1	10·3	10·9	10·2	9·2	8·2	6·6	7·1	7·7
5	8·1	8·2	7·9	7·1	7·1	7·6	9·2	10·8	11·2	10·2	8·7	8·2	7·6	8·1	8·1
6	7·9	8·8	7·7	7·2	7·1	8·1	8·1	10·1	10·5	9·4	8·3	8·2	8·2	8·2	8·2
7	8·9	8·9	8·1	7·3	7·2	7·8	8·7	10·2	10·5	10·1	9·4	9·0	8·9	8·8	8·3
8	8·7	8·5	7·5	6·6	6·1	6·2	7·4	8·1	8·6	8·3	7·2	7·0	6·6	7·0	7·2
9	8·4	8·5	8·2	7·4	7·3	8·3	9·7	10·4	10·5	9·5	8·7	7·8	7·5	7·9	7·9
10	8·2	8·1	7·1	6·5	6·5	7·6	9·1	10·2	10·5	10·0	8·9	8·2	8·4	8·7	8·7
11†	8·6	8·4	7·0	5·8	5·9	7 7	9·2	10·1	9·9	9·4	8·6	7·8	7·7	7·9	8·1
12	8·4	8·3	7·6	6·4	6·6	7·6	9·1	10·3	10·4	9·6	8·8	8·3	8·2	8·1	8·3
13†	8·6	8·6	7 9	8·2	8·2	7·9	9·1	10·3	10·7	10·0	9·3	8·5	8·2	8·2	8·3
14	8·7	8·9	8·2	7·6	7·4	8·5	9·2	9·9	10·4	9·7	9·1	9·2	8·9	8·7	8·4
15	6·9	8·1	6·8	6·8	7·3	8·1	8·8	9·0	9·0	9 0	8·8	8·4	8 1	8·2	8·4
16†	8·3	8·1	7·3	7·0	6·8	7·0	8 0	8 9	9·2	8·8	8·4	7·7	7·8	8 4	8·5
17	8·6	8·6	7·9	7·8	7·7	7·8	8·6	8·3	7·9	7·9	7·3	6·8	6·6	7·3	7 3
18	5·0	6·2	6·4	7·2	8·4	9·5	10·5	10·9	10·8	9·9	8·8	8·7	8·7	8·3	8·7
19	8·3	8·3	8·4	8·2	8·4	9·0	9·4	9·9	9·4	8·4	8 2	8·4	8·4	8·4	8·5
20	8·7	8·8	8·8	8·0	7·6	7·7	7·6	8·6	9·4	8·4	7·5	8·1	8·1	8·4	8·5
21	8·8	8·9	8·5	8·4	8·6	8·9	9·7	10·3	9·6	8·9	8·7	8·4	8·4	8·5	8·7
22	8·6	8·6	7·8	7·4	8·0	8·6	9·7	10·4	9·6	8·9	8·4	7·5	7 9	8·7	8·9
23†	8·6	8·7	8·5	8·5	8·9	9·7	10·2	10·3	10·0	9·2	8·3	8·0	8 5	8·7	8·8
24†	8·6	8·8	8·9	8·8	9 5	9·8	10·5	11·1	10·7	9·7	9·0	8·5	8·5	8·7	8·9
25	8·9	8·7	8·6	0·2	9·7	10·0	10·7	10·7	10·1	9·7	9·3	9·1	9·5	9·5	9·4
26	9·7	10·0	9·5	9·7	9·7	9·8	9·9	9·2	9·0	8·8	8·4	8·3	6·9	5·6	7·1
27	9·9	9·5	9·5	9·5	9·5	10·0	11·5	11·3	10·2	9·5	9·1	7·6	7·2	7·8	7·8
28	8·8	8·9	8·3	7·7	7·6	7·7	8·6	8·5	8·7	8·5	8 0	8·5	8·5	7·5	7 6
29	9·2	9·2	9·0	8·8	8·9	9·6	9·6	9·0	8·5	8·5	8·2	7·5	8·0	7·8	8·0
30	8·7	9·0	9·0	8·7	8·4	8·5	8·7	8·9	8·5	7·8	7·7	7 7	8 2	8·4	8·0
31	8·6	8·8	8·6	8·3	8·7	9·1	9·7	9·9	8·9	8·0	7·8	7·5	7·4	7·5	8 5
Mean	8·5	8·5	8·0	7·6	7·7	8·3	9·2	9·8	9·8	9·2	8·5	8·1	7·9	8·1	8·2
Mean†	8·6	8·6	7·9	7·7	7·9	8·4	9·4	10·2	10·1	9·4	8·7	8·1	8·1	8·4	8·5

† Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

SEPTEMBER. 0° PLUS TABULAR QUANTITIES.

Hours (G.M.T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
7·5	7·6	8·4	8·5	8·5	8·4	7·9	7·8	7·8	7·7	12 54	5·3	7 18	10·1	1
9·4	9·5	9·5	9·1	8·8	8·6	8·4	8·2	8·4	8·3	2 58	5·8	7 10	9·8	2
7·8	8·1	8·6	8·5	8·1	8·5	8·3	7·8	7·8	8·3	3 20	6·3	7 50	10·5	3
8·9	8·6	8·6	8·5	8·2	8·2	7·9	8·1	8·1	8·5	2 0	5·8	7 0	10·4	4
8·3	8·4	8·1	7·5	8·4	8·1	8·3	7·9	7·9	8·4	2 10	5·9	6 50	11·5	5
8·6	8·5	8·1	8·5	8·2	8·3	8·1	8·2	8·4	8·3	2 10	5·7	7 10	10·7	6
7·9	7·9	7·9	7·9	8·1	8·3	8·6	8·2	8·3	8·4	2 50	6·1	7 10	12·2	7
8·4	8·0	7·8	8·1	8·0	8·1	8·4	8·3	8·3	8·4	2 20	5·3	8 0	11·6	8
8·1	8·1	7·7	7·9	8·0	8·3	8·1	8·4	8·5	8·2	2 50	5·2	8 50	11·3	9
8·0	8·2	8·5	8·5	8·4	8·5	8·5	8·5	8·5	8·2	3 0	5·4	7 50	10·6	10
8·1	7·9	8·1	8·1	8·1	8·1	8·2	8·5	8·7	8·3	3 0	4·9	7 50	12·3	11
8·2	8 2	8·2	8·2	8·3	8·3	8·3	9·0	8·3	8·7	2 26	5·5	7 50	12·2	12
8·4	8·5	8·4	8·4	8·4	8·4	8·2	8·2	8·4	8·3	2 54	**4·6**	8 0	11·3	13
8·2	8·3	8·4	8·4	8·3	8·5	8·5	8·3	8·3	8·4	2 58	5·7	8 20	11·4	14†
8·2	7·9	7·7	7·8	8·1	8·3	8·2	8·1	8·0	8·2	3 10	5·7	7 10	11·0	15†
8·5	8·3	8·3	8·2	8·2	8·2	8·2	8·2	8·3	8·5	3 10	6·0	7 0	12·1	16†
8·0	8·2	8·3	8·3	8·1	8·2	8·1	8·2	8·3	8·5	3 20	5·8	8 0	11·2	17
8·7	8·2	6·9	7·3	7·0	7·1	6·7	6·4	6·3	8·0	10 50	5·2	7 20	11·2	18
8·0	7·8	7·8	7·8	7·6	7·5	7·5	7·5	7·6	7·8	1 46	5·0	8 2	10·8	19
8·7	8·3	8·2	8·1	8·1	8·1	8·1	8·2	8·3	8·2	2 26	5·5	7 26	11·2	20
8·7	8·4	8·1	7·9	7·6	7·5	7·6	7·8	7·8	8·3	2 20	6·4	7 10	11·3	21
8·8	8·6	8·3	8·1	8·1	8·1	8·1	8·1	8·2	8·4	2 20	5·7	7 40	10·8	22
8·7	8·6	8·4	8·1	8·0	7·7	7·8	7·8	7·6	8·1	3 18	6·1	7 20	10·1	23
8·9	8·6	8·3	8·3	8·2	8·3	8·3	8·2	8·3	8·6	2 40	6·3	7 10	**12·3**	24
8·9	8·7	8·7	8·5	8·1	7·9	7·9	7·9	8·1	8·6	3 0	5·8	7 50	12·3	25
8·6	8·5	8·4	8·3	8·3	8·2	8·2	8·1	8·2	**8·8**	3 0	6·1	7 20	12·3	26†
8·4	8·4	8·4	8·4	8·3	8·3	8·3	8·2	8·3	8·5	2 50	6·2	8 10	11·3	27†
8·9	8·7	8·7	8·4	8·5	8·2	8·5	8·2	8·1	8·5	3 22	5·9	8 4	11·3	28
8·0	8·1	7·9	8·1	8·4	8·1	7·9	8·4	8·7	8·1	13 12	5·1	7 26	10·8	29
8·6	8·1	8·3	8·0	8·0	7·9	8·1	8·1	8·1	8·2	3 38	6·0	10 6	9·7	30
8·4	8·3	8·2	8·2	8·1	8·1	8·1	8·1	8·1	8·3					Mean.
8·4	8·3	8·3	8·2	8·3	8·3	8·3	8·2	8·2	8·5					Mean†

OCTOBER.

7·6	7·7	7·7	8·3	7·9	7·9	8·1	8·3	8·5	7·9	3 40	5·7	8 0	9·9	1
8·8	8·6	8·3	8·1	8·3	8·3	8·5	8·9	8·8	8·3	2 42	5·7	7 54	10·3	2†
7 3	7·1	7·8	7·9	7·6	8·3	8·3	7·9	8·5	8·0	3 40	5·1	8 10	9·8	3
7·9	7·7	7·9	7·9	7·9	8·2	8·1	8·1	8·1	8·1	3 0	6·1	7 50	11·2	4
7·9	7·2	7·2	7·7	7·9	8·1	8·5	8·6	8·8	8·3	3 42	6·8	7 46	**12·1**	5
8·2	8·3	8·3	8·3	8·2	8·2	8·2	8·2	8·7	8·4	3 50	6·9	7 36	11·1	6
8·4	8·2	8·3	8·4	8·6	**8·3**	8·3	8·9	8·6	8·7	2 40	7·0	7 34	11·1	7
7·3	7·7	7·5	7·6	7·6	8·1	8·2	8·2	8·3	7·6	4 20	5·4	8 26	9·2	8
8·3	8·3	8·1	8·2	8·1	8·2	8·3	8·5	8·5	8·4	3 38	6·5	8 10	11·1	9
8·5	8·3	8·2	8·2	8·2	8·2	8·2	8·2	8·4	8·4	3 50	6·1	7 58	11·1	10
7·9	8·0	8·0	8·0	7·9	7·9	8·2	8·1	8·3	8·1	3 20	5·5	7 0	10·5	11†
8·3	8·3	8·3	8·3	8·2	8·2	8·4	8·4	8·5	8·4	3 40	7·2	7 50	10·7	12
8·3	8·3	8·3	8·2	8·3	8·4	8·4	8·5	8·6	8·6	3 40	7·2	7 50	11·0	13†
8·8	8·9	8·5	8·3	7·7	7·0	6·2	6·2	6·4	8·3	21 46	6·0	7 40	10·8	14
8·4	8·4	8·3	8·3	8·3	8·3	8·3	8·3	8·3	8·2	2 10	6·7	9 0	9·4	15
8·3	8·3	8·4	8·5	8·5	8·5	8·4	8·5	8·5	8·2	3 42	6·6	8 0	9·3	16†
7·1	6·9	6·1	6·1	5·3	5·4	4·9	5·1	5·0	**6·9**	21 34	**4·1**	6 26	9·2	17
8·6	8·3	8·2	8·3	7·9	7·7	7·5	7·3	7·4	8·2	0 2	4·2	7 0	11·4	18
8·5	8 4	8·4	8·3	8·3	8·4	8·3	8·4	8·4	8·5	3 20	7·8	8 0	10·4	19
8·4	8·5	8·4	8·3	8·5	8·4	8·4	8·4	8·5	8·3	3 40	7·3	7 50	9·6	20
8·6	8·5	8·5	8·4	8·5	8·4	8·3	8·4	8·5	8·7	11 0	7·9	7 20	10·5	21
8·9	8·8	8·7	8·5	8·4	8·5	8·5	8·5	8·5	8·6	3 20	7·0	7 0	10·5	22
8·8	8·8	8·7	8·6	8·5	8·5	8·5	8·5	8·6	8·8	10 50	7·5	7 0	10·6	23†
8·9	9·1	9·0	8·7	8·7	8·6	8·6	8·7	9·0	9·1	11 20	8·3	7 0	11·3	24†
9·4	9·4	8·4	9·5	8·7	8·7	8·6	8·6	8·8	**9·3**	2 0	9·3	6 20	11·5	25
7·6	7·5	7·7	7·7	8·6	8·5	8·6	8·6	9·5	8·6	13 18	5·0	6 10	10·4	26
7·8	7·8	8·1	8·2	8·6	8·8	8·8	8·7	8·7	8·9	12 18	6·3	6 20	11·9	27
8·6	8·6	8·4	8·4	8·3	8·9	8·7	8·5	8·7	8·4	3 20	7·2	20 6	9·5	28
7·5	8·1	8·5	8·5	8·7	8·5	8·7	8·9	8·5	8·6	15 10	6·7	5 28	10·0	29
8·5	8·4	8·4	9·0	9·0	10·0	9·0	8·5	8·5	8·6	10 56	7·4	20 10	10·4	30
8·7	8·9	8·9	9·0	8·9	8·8	9·2	9·1	8·9	8·7	11 50	6·7	7 0	10·1	31
8·3	8·2	8·2	8·2	8·2	8·3	8·2	8·2	8·4	8·4					Mean.
8·4	8·5	8·5	8·4	8·3	8·3	8·4	8·4	8·6	8·6					Mean†

* See footnote on page 91.
† Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

NOVEMBER. 0° PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	9·2	9·3	9·3	9·2	9·6	9·9	9·7	9·5	9·0	7·9	7·6	7·5	7·6	7·5	7·9
2	9·3	9·7	9·6	9·5	9·5	9·3	10·0	10·2	9·5	8·9	9·4	9·4	9·3	9·0	8·8
3	9·8	9·4	9·7	9·5	9·3	9·1	9·2	9·5	9·6	9·3	9·5	9·6	9·9	9·7	9·5
4	9·6	9·7	9·6	9·0	9·0	9·2	9·4	9·0	8·9	9·1	9·0	8·3	8·0	8·4	8·5
5	9·8	9·8	10·1	9·4	9·1	9·1	9·7	9·9	9·6	8·9	8·6	8·9	9·3	9·3	9·3
6	9·5	9·6	9·5	9·0	8·8	8·9	9·3	9·7	9·5	8·9	8·5	8·6	8·7	8·9	9·3
7	9·5	9·6	9·5	8·7	8·5	8·7	9·6	10·4	10·5	10·7	10·6	10·0	9·7	9·5	9·4
8	10·1	10·3	10·0	9·4	8·6	8·7	8·9	9·2	9·0	8·9	9·1	9·5	9·7	9·3	8·9
9	9·3	9·6	9·5	9·1	9·3	9·5	9·5	9·5	9·0	8·9	8·9	8·6	9·0	8·7	8·5
10	9·0	9·3	9·5	9·5	9·5	9·6	9·4	9·0	9·0	9·3	9·2	8·9	8·9	8·8	9·0
11	8·5	8·5	8·5	7·6	7·4	7·5	8·4	8·4	8·0	8·2	8·2	8·3	8·5	8·5	8·6
12†	9·2	9·1	9·0	8·8	9·0	9·0	9·3	9·5	9·5	9·5	9·5	9·1	8·7	8·6	8·7
13	8·9	9·0	9·2	9·1	8·5	8·5	9·3	9·6	9·2	9·0	8·9	8·8	8·8	8·7	8·6
14	9·8	10·0	10·7	10·6	10·6	10·2	10·7	10·6	10·5	10·3	9·8	9·8	9·6	9·5	9·2
15	7·4	8·3	9·3	9·8	10·7	10·3	9·8	9·5	9·1	8·7	8·3	7·6	8·8	8·7	8·7
16	9·0	9·6	9·6	9·2	9·(	8·8	9·1	8·7	8·1	8·0	8·1	8·7	8·7	8·7	8·7
17	9·1	9·1	9·4	9·4	9·0	8·9	9·6	9·5	8·1	7·7	7·8	8·5	8·6	8·8	8·7
18	9·3	9·6	9·6	8·8	8·1	8·1	8·3	8·1	7·7	7·3	7·7	8·3	8·7	8·8	8·8
19†	9·4	9·7	9·9	9·7	9·5	9·1	9·2	9·5	8·8	7·9	8·5	8·9	9·0	9·0	8·9
20†	9·7	9·9	9·9	9·4	9·3	9·0	8·9	9·0	8·8	8·3	8·6	8·8	9·6	9·6	9·4
21†	9·8	9·8	9·9	9·3	8·9	9·3	9·9	10·3	9·8	9·6	9·7	9·4	9·1	9·0	9·0
22†	9·6	10·0	11·0	10·9	10·9	10·7	10·3	9·7	9·2	9·2	9·0	9·0	8·9	9·0	9·3
23	9·7	9·9	10·3	10·7	11·0	11·1	11·5	**11·5**	11·5	10·4	9·2	9·1	8·9	8·9	9·2
24	9·9	10·1	10·9	10·5	9·6	9·0	8·4	7·9	6·9	6·9	7·8	7·9	7·8	8·3	8·5
25	9·3	10·0	10·1	10·1	9·4	9·2	9·7	9·5	8·7	7·2	6·4	7·8	6·6	6·9	7·9
26	10·1	10·1	10·3	9·8	8·9	8·9	9·0	8·9	8·4	7·9	7·9	7·9	7·9	8·2	8·9
27	9·5	9·5	9·5	9·1	9·4	9·3	9·2	9·1	9·0	8·4	7·9	7·9	8·4	8·7	8·1
28	9·9	10·0	10·0	9·9	9·7	10·1	10·2	10·1	9·4	8·9	8·9	8·4	8·5	8·5	8·6
29	9·6	9·6	10·0	10·0	10·1	9·9	10·0	10·0	9·6	9·0	8·7	8·6	8·5	8·5	8·6
30	9·2	9·3	9·1	9·0	9·1	9·2	9·6	9·8	9·2	9·0	9·1	9·2	8·7	8·3	8·6
Mean .	9·4	9·6	**9·7**	9·5	9·3	9·3	9·5	9·5	9·1	8·7	**8·7**	8·7	8·7	8·7	8·8
Mean† .	9·5	9·7	**9·9**	9·6	9·5	9·4	9·5	9·6	9·2	**8·9**	9·1	9·0	9·1	9·1	9·1

DECEMBER.

1	9·6	9·7	9·8	9·5	9·1	9·1	9·4	9·7	9·5	8·8	8·4	9·0	8·9	8·8	8·9
2	9·6	9·7	9·9	10·0	10·1	9·9	9·7	9·5	8·6	8·1	8·3	8·6	8·7	8·7	8·7
3	9·6	9·9	10·3	10·1	10·2	10·1	10·2	10·1	9·2	8·4	7·5	6·6	6·1	**6·0**	6·0
4	8·7	9·2	11·1	**11·6**	11·2	10·9	9·5	8·8	7·5	6·5	6·5	7·0	7·7	8·1	8·6
5	8·6	8·8	9·3	9·5	9·2	9·3	9·5	9·3	9·2	9·1	8·7	8·7	8·7	8·8	8·9
6	9·2	9·5	9·4	9·5	9·5	9·6	10·0	9·7	9·2	8·5	8·2	8·2	8·6	8·9	8·9
7	9·4	9·6	9·7	9·7	9·2	8·7	8·7	9·4	9·2	8·7	8·5	8·7	9·2	9·2	9·2
8†	9·5	9·5	9·5	9·6	9·4	9·4	9·4	10·3	9·7	8·9	8·4	8·4	8·6	9·1	9·0
9	9·3	9·4	9·8	9·7	9·3	9·3	9·6	9·9	9·7	9·2	8·7	8·7	8·8	8·9	9·1
10	9·8	10·1	10·1	9·3	8·3	8·4	9·3	9·6	8·8	7·8	7·9	8·2	8·3	8·7	8·8
11	9·8	9·9	10·0	10·1	10·4	9·8	9·5	9·3	9·3	9·7	9·3	9·3	9·2	9·1	9·3
12	10·3	10·3	10·4	10·2	9·4	9·2	9·1	8·8	8·8	9·0	9·7	9·9	9·5	9·3	9·3
13	10·1	10·5	11·0	10·3	10·9	10·1	9·8	9·5	9·5	8·9	9·0	9·5	9·6	9·3	9·4
14	9·9	10·3	10·5	10·5	10·2	9·6	9·3	9·6	9·9	9·7	9·5	9·3	8·8	8·9	8·8
15	10·4	10·5	10·9	10·9	10·9	11·3	11·3	10·7	10·3	9·8	9·4	9·6	9·5	9·5	9·5
16†	10·3	10·3	10·6	10·5	9·9	9·9	10·1	9·6	9·1	8·9	8·9	8·9	9·1	9·4	9·4
17†	10·3	10·4	10·6	10·7	10·8	10·6	10·7	10·6	10·3	10·2	9·9	9·9	9·6	9·4	9·5
18†	10·1	10·2	10·5	10·5	10·2	10·2	10·2	10·2	9·5	9·0	8·9	9·0	9·2	9·2	9·3
19	10·2	10·2	10·6	10·6	10·9	10·9	10·5	10·5	10·0	9·5	9·2	9·4	9·6	9·8	9·8
20	10·0	10·1	10·6	11·4	11·0	11·1	11·4	10·7	9·9	9·1	8·6	8·6	8·9	8·8	8·9
21	10·0	10·4	10·4	10·7	10·5	10·4	10·4	9·4	8·6	7·9	8·2	8·4	8·1	8·4	8·4
22	9·6	9·7	10·2	10·2	10·1	9·6	9·8	9·7	9·5	8·8	8·4	8·3	8·8	9·0	8·7
23	9·9	9·9	9·7	9·6	9·4	8·5	9·3	9·5	9·0	8·5	7·8	7·4	8·3	8·9	9·0
24	9·9	9·9	9·9	9·5	9·4	9·4	9·5	9·5	9·4	8·7	8·4	7·7	7·3	7·9	8·4
25	9·5	9·5	9·4	9·4	9·4	9·6	9·9	10·6	10·2	8·9	7·9	7·9	7·8	8·6	9·0
26	9·5	9·5	9·5	9·4	8·5	8·7	9·8	10·5	9·3	8·5	8·4	8·5	8·5	8·7	9·0
27	9·5	9·6	9·7	9·7	9·1	8·5	8·9	9·6	10·0	8·0	7·9	9·0	9·1	9·1	8·8
28	9·5	9·6	9·8	9·9	9·4	8·5	8·7	9·1	8·7	8·4	8·3	8·5	9·0	9·1	9·2
29	9·8	9·8	10·1	9·6	9·6	9·8	10·3	10·5	10·1	9·8	9·8	9·9	9·6	9·3	9·3
30	9·6	9·8	10·2	10·6	10·2	10·2	10·6	10·9	10·7	9·8	9·3	9·1	9·1	9·1	9·2
31†	9·7	9·7	10·1	10·6	9·7	9·6	10·3	10·7	10·1	9·7	9·5	9·6	9·6	9·6	9·5
Mean .	9·7	9·9	10·1	**10·1**	9·9	9·7	9·8	9·9	9·4	8·9	**8·6**	8·7	8·8	8·9	9·0
Mean† .	10·0	10·0	10·3	**10·4**	10·0	9·9	10·3	10·3	9·7	9·3	**9·1**	9·2	9·2	9·4	9·3

† Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

NOVEMBER. 0° PLUS TABULAR QUANTITIES.

Hours. (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
8·2	7·9	7·9	7·9	8·5	8·9	8·9	8·9	8·9	8·6	13 0	7·1	5 20	9·9	1
8·5	8·5	9·3	9·3	9·3	9·3	9·3	9·2	9·3	9·3	15 26	8·3	6 50	10·3	2
9·5	9·5	9·5	9·5	9·3	9·3	9·3	9·3	9·5	9·5	5 20	9·1	12 10	10·0	3
8·7	8·7	9·0	9·0	9·0	9·1	9·2	9·6	9·6	9·0	12 2	7·7	1 10	9·9	4
9·3	9·2	9·1	9·1	9·2	9·5	9·4	9·0	9·4	9·3	10 10	8·5	1 40	10·3	5
9·3	9·3	9·3	9·3	9·3	9·3	9·3	9·5	9·5	9·2	10 0	8·4	7 20	9·9	6
9·5	9·5	9·6	9·5	9·5	9·6	9·6	9·5	9·9	9·6	3 40	8·2	9 10	10·8	7
8·7	8·7	8·6	8·5	8·6	8·5	8·7	9·0	9·0	9·1	3 56	8·1	1 0	10·4	8
8·5	8·5	8·5	8·5	8·5	8·4	8·5	8·6	8·7	8·9	20 22	8·3	1 26	9·7	9
9·0	9·0	8·9	8·5	8·5	8·3	8·5	8·5	8·5	9·0	20 20	8·0	5 58	9·7	10
8·6	8·6	8·8	8·8	8·7	8·6	8·7	8·9	9·2	8·4	3 54	7·0	23 0	9·2	11
8·7	8·8	8·8	8·8	8·8	8·8	8·8	8·8	8·8	9·0	15 42	8·2	9 20	9·6	12†
8·6	8·7	8·7	8·7	8·7	8·9	9·0	9·3	9·5	8·9	4 40	7·9	6 40	9·7	13
8·9	8·9	8·7	8·0	7·1	6·2	6·0	7·1	7·6	9·1	20 38	5·3	2 26	11·2	14
8·9	8·8	8·6	8·6	8·6	8·5	8·6	8·5	8·9	8·9	11 0	7·3	4 10	10·7	15
8·7	8·6	8·6	8·5	8·4	8·4	8·4	8·7	8·7	8·7	9 20	7·6	1 0	9·6	16
8·7	8·7	8·7	8·7	8·5	8·5	8·8	8·9	9·1	8·8	9 20	7·5	6 34	10·1	17
8·9	8·7	8·9	8·7	8·7	8·7	8·9	8·8	8·9	8·6	8 50	6·9	1 50	9·8	18
8·8	8·8	8·8	8·8	8·8	8·9	9·2	9·2	9·4	9·1	9 0	7·7	2 10	10·2	19†
9·2	9·1	9·1	8·8	8·8	9·0	9·1	9·4	9·6	9·2	9 10	7·9	1 20	9·9	20†
9·0	9·2	9·1	9·1	9·0	8·9	9·0	9·0	9·1	9·3	3 40	8·6	7 0	10 5	21†
9·3	9·3	9·3	9·3	9·2	9·3	9·3	9·4	9·4	9·6	12 0	8·5	2 0	11·2	22†
9·3	9·4	9·3	9·1	8·3	8·5	8·9	8·9	9·1	9·7	19 20	7·9	7 10	11·8	23
8·6	8·4	8·4	8·4	8·2	8·4	8·1	9·0	9·1	8·6	8 26	6·1	2 6	10·9	24
7·9	7·9	7·7	7·3	8·0	8·3	8·3	8·9	9·0	8·5	10 0	5·8	1 10	10·7	25
8·6	8·1	8·4	8·5	8·2	8·7	8·9	8·9	9·1	8·8	10 0	7·3	0 12	10·8	26
8·4	8·8	8·7	9·0	8·9	8·5	9·0	9·1	9·3	8·9	10 40	7·1	1 36	9·9	27
9·0	9·0	9·0	9·0	8·9	9·0	9·1	9·2	9·3	9·3	11 6	8·1	6 0	10·5	28
8·6	8·6	8·5	8·7	8·9	8·9	8·6	9·0	9·1	9·1	15 40	8·0	6 10	10·4	29
8·7	8·8	8·9	8·8	8·7	8·7	8·7	9·0	9·1	9·0	12 50	8.0	6 50	10·0	30
8·8	8·8	8·8	8·8	8·7	8·7	8·8	9·0	9·1	9·0					Mean.
9·0	9·1	9·1	9·0	8·9	9·0	9·1	9·2	9·3	9·2					Mean.†

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9·0	9·1	9·0	9·0	9·1	9·1	9·1	9·3	9·5	9·2	9 50	8·0	7 10	10·1	1†
9·0	9·1	9·0	9·1	9·1	9·3	9·4	9·4	9·5	9·2	8 50	8·0	4 0	10·4	2†
5·5	6·4	6·0	6·0	6·5	6·5	6·1	7·7	8·2	7·9	14 56	3·9	1 50	10·6	3
8·3	8·3	8·3	8·2	8·1	8·1	8·1	8·2	8·1	8·4	10 10	6·0	3 2	12·2	4
8·9	9·1	9·1	9·0	8·9	8·9	8·7	9·1	9·2	9·0	10 0	8·2	6 18	10·1	5
8·9	9·0	9·0	9·1	8·9	8·7	8·8	8·9	9·2	9·1	9 50	8·1	6 10	10·3	6
9·2	9·2	9·2	9·2	9·2	9·2	9·2	9·3	9·3	9·2	5 20	8·2	1 22	10·2	7
9·1	9·2	9·2	9·1	9·1	9·2	9·1	9·1	9·2	9·2	10 40	8·0	6 40	10·7	8†
9·2	9·2	9·2	9·2	9·2	9·2	9·3	9·3	9·7	9·3	11 0	8·2	2 20	10·3	9
9·2	9·2	9·3	9·3	9·3	9·3	9·3	9·5	9·5	9·1	9 26	7·7	1 50	10·3	10
9·4	9·3	9·4	9·4	9·3	9·3	9·4	9·7	10·1	9·6	10 20	8·6	4 0	10·6	11
9·3	9·4	9·2	9·2	9·2	9·2	9·3	9·3	9·4	9·5	8 0	8·4	2 0	10·5	12
9·4	9·2	8·8	8·9	8·8	8·6	9·0	9·4	9·7	9·6	9 2	8·5	2 40	11·9	13
8·9	9·0	9·1	9·1	9·2	9·3	9·3	9·5	9·9	9·5	11 50	8·5	2 26	11·0	14
9·4	9·4	9·4	9·4	9·4	9·3	9·4	9·5	10·1	10·0	20 0	8·6	5 16	11·4	15
9·4	9·4	9·4	9·4	9·4	9·4	9·5	9·6	10·0	9·6	9 0	8·5	1 50	10·8	16†
9·5	9·5	9·5	9·5	9·5	9·5	9·5	9·6	9·9	10·0	13 0	9·1	4 10	11·2	17†
9·3	9·3	9·4	9·4	9·5	9·5	9·7	9·7	9·9	9·7	9 50	8·5	2 10	10·6	18†
9·6	9·5	9·5	9·6	9·6	9·6	9·6	9·9	9·9	9·9	10 0	8·6	9 34	11·1	19
9·0	8·9	8·5	8·1	9·4	8·8	9·5	9·6	9·9	9·6	18 10	7·8	5 34	11·7	20
8·0	8·7	8·7	8·5	8·9	9·2	9·4	9·5	9·5	9·2	9 14	7·0	2 40	11·1	21
8·3	8·8	9·4	8·9	8·9	9·0	9·0	9·5	9·6	9·3	10 50	7·9	2 10	10·5	22
8·3	7·9	8·4	8·5	8·9	9·0	9·4	9·5	9·5	8·9	15 36	7·0	0 34	10·3	23
8·5	8·6	8·6	8.7	8·8	8·9	9·0	9·6	9·4	9·0	10 54	7·2	0 2	10·3	24
9·1	9·2	9·1	9·2	9·4	9·4	9·4	9·5	9·5	9·2	11 48	7·6	7 6	11·4	25
9·2	9·2	9·0	9·1	9·3	9·3	9·3	9·6	9·4	9·2	9 50	7·9	6 58	10·7	26
8·6	9·1	9·4	9·5	9·4	9·4	9·5	9·5	9·5	9·2	9 38	7·4	2 26	9·9	27
9·3	9·3	9·4	9·4	9·4	9·4	9·4	9·6	9·7	9·2	9 40	8·0	2 38	10·0	28
9·3	9·4	9·5	9·3	9·3	9·5	9·3	9·1	9·2	9·6	22 0	8·8	6 50	10·6	29
9·3	9·3	9·2	9·1	9·1	9·1	9·1	9·1	9·4	9·6	11 34	8·6	7 10	11·1	30
9·5	9·5	9.4	9·4	9·5	9·5	9·6	9·6	9·7	9·8	14 0	8·9	7 0	10·9	31†
8·9	9·0	9·0	9·0	9·1	9·1	9·1	9·3	9·5	9·3					Mean
9·3	9·4	9·4	9·4	9·4	9·4	9·5	9·5	9·8	9·7					Mean.†

* See footnote on page 91.
† Five international quiet days.

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(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JANUARY. 37000γ PLUS TABULAR QUANTITIES.

Date.	Hours. (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	221	223	227	229	235	248	266	266	259	250	235	222	210	203	197
2	229	235	240	242	247	257	267	266	257	247	242	242	243	234	230
3	236	237	239	243	251	259	275	272	272	270	239	206	188	194	186
4	224	230	231	233	247	252	261	253	227	207	197	186	183	173	177
5	216	211	207	212	210	217	217	211	206	197	191	174	155	139	134
6	197	206	218	229	236	245	260	260	253	253	248	225	189	183	160
7	204	210	217	217	212	215	226	237	229	223	219	206	207	202	204
8	214	211	211	210	213	225	230	227	223	218	213	210	211	213	215
9	223	221	221	222	221	233	248	257	257	246	232	224	222	222	223
10	233	234	236	241	247	254	249	239	233	231	228	226	226	227	229
11†	232	235	238	245	251	261	269	266	256	247	240	240	232	233	235
12†	239	241	250	254	256	258	259	269	270	263	250	241	236	239	237
13	241	239	252	268	273	277	279	278	278	274	265	254	245	246	245
14†	233	239	243	249	258	273	276	268	255	242	234	230	229	238	238
15	238	242	250	266	284	295	294	290	283	267	253	244	243	245	247
16	237	234	236	243	253	264	267	265	253	241	236	234	232	233	235
17	236	240	242	244	251	263	269	266	262	256	253	249	244	239	232
18	212	219	227	243	256	268	280	281	274	257	238	225	219	219	226
19	234	239	233	229	231	251	262	260	251	247	243	233	221	208	211
20	242	240	242	242	253	266	273	279	275	265	257	245	234	228	233
21	212	211	221	219	221	227	235	243	240	235	230	229	225	225	233
22	230	232	240	247	259	272	284	280	274	262	253	253	243	228	230
23	225	231	232	231	238	251	264	270	264	249	248	245	242	239	232
24	230	235	235	235	241	246	255	261	265	265	260	254	251	249	243
25	238	247	247	249	254	253	254	263	261	254	247	237	237	238	237
26†	240	241	245	245	249	256	261	258	254	257	255	253	256	255	253
27†	249	251	255	263	270	281	283	278	270	260	253	251	252	249	253
28	254	255	259	269	283	298	306	305	294	281	269	263	263	269	275
29	254	255	254	258	261	268	269	255	246	242	229	211	207	222	227
30	241	245	251	261	270	270	280	271	265	263	253	235	207	194	197
31	232	232	237	248	257	273	283	285	270	259	249	236	232	236	237
Mean . .	231	233	237	241	248	257	265	264	257	249	241	232	225	223	223
Mean†. .	241	244	249	253	259	268	271	269	262	255	247	243	241	243	243

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1	240	243	240	243	237	250	261	258	244	235	234	223	218	226	223
2	229	234	241	243	254	270	281	283	282	263	249	241	227	230	236
3	239	236	239	241	252	262	267	256	261	254	247	233	224	221	234
4	231	235	238	243	251	257	263	265	259	252	246	244	236	235	240
5	243	244	246	256	271	283	291	291	289	275	268	260	242	227	232
6†	243	245	249	255	265	273	284	290	288	280	269	258	251	247	244
7	252	255	254	254	260	265	267	266	260	255	255	255	253	251	248
8†	259	262	266	274	285	288	290	286	284	280	267	251	238	232	227
9†	235	238	243	250	259	266	272	279	273	264	259	257	256	263	264
10†	257	260	261	267	273	278	285	289	286	277	265	255	247	241	232
11	253	252	254	267	272	283	294	296	287	278	270	264	262	262	262
12	257	263	261	273	285	302	306	280	265	253	257	245	230	232	205
13	170	176	190	185	204	219	231	237	224	189	184	175	164	123	145
14	188	195	191	197	204	223	233	247	248	233	220	209	195	187	187
15	206	209	212	215	228	239	245	242	239	233	224	206	207	200	202
16	214	224	219	229	235	238	246	244	241	217	210	216	216	211	211
17	215	212	212	228	233	233	233	238	243	237	231	221	219	220	215
18	225	228	233	236	237	242	245	247	250	248	238	220	219	210	204
19	219	226	233	239	248	254	251	261	263	260	249	239	228	225	227
20	223	227	230	236	240	251	264	272	269	261	248	236	225	230	232
21	231	229	228	223	231	239	246	250	248	238	231	227	231	233	233
22†	233	232	234	238	245	251	257	260	261	261	253	243	239	235	228
23	235	236	241	249	263	273	283	284	273	270	260	249	246	235	224
24	254	260	253	259	267	272	272	279	282	267	252	252	248	242	239
25	248	249	248	253	261	250	251	258	242	245	222	217	193	193	202
26	225	231	231	241	255	265	273	268	267	259	248	246	242	238	233
27	232	237	247	255	258	279	283	281	275	270	261	251	244	245	245
28	238	238	238	246	258	276	291	285	277	262	249	237	242	236	204
Mean .	232	235	237	243	251	260	267	268	264	254	245	237	230	226	224
Mean† .	246	248	251	257	266	271	278	281	279	273	263	253	246	244	239

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JANUARY. 37000γ PLUS TABULAR QUANTITIES.

Hours. (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
197	207	213	216	216	229	233	227	229	228	6 22	270	14 58	195	1
231	231	233	233	232	230	233	235	234	241	6 28	269	13 26	225	2
196	198	219	214	201	199	199	219	227	226	8 28	283	14 6	182	3
181	166	157	172	179	194	216	218	214	207	5 56	264	17 6	153	4
135	147	152	162	179	198	186	188	190	184	5 56	221	14 48	123	5
170	174	181	176	187	213	207	190	194	211	7 6	263	14 14	131	6
199	190	197	212	203	194	198	215	209	210	6 58	241	16 36	177	7
212	221	209	221	220	216	218	226	222	217	5 42	236	17 8	202	8
221	222	222	224	227	227	227	227	228	229	7 56	259	1 26	217	9
226	231	227	230	229	235	238	233	232	234	5 16	255	11 20	223	10
232	229	228	229	231	234	235	236	236	241	6 4	271	17 6	227	11†
232	223	228	235	239	239	240	240	238	245	7 38	273	15 54	222	12†
243	235	229	230	232	232	228	230	232	250	5 34	300	17 22	225	13
240	239	238	237	236	238	236	234	234	243	5 48	279	11 26	226	14†
245	241	239	238	239	229	227	229	227	252	5 22	299	20 34	220	15
235	229	229	231	234	237	240	235	235	240	6 24	271	16 28	235	16
210	203	197	185	185	198	202	200	207	230	5 38	272	18 36	176	17
225	224	229	231	226	225	230	229	224	237	7 18	284	0 4	212	18
221	210	206	224	228	237	233	231	229	233	7 2	265	16 42	199	19
233	224	226	211	207	220	220	206	213	238	7 54	280	18 38	196	20
227	220	220	218	223	226	227	231	235	227	7 2	246	0 52	208	21
231	238	228	222	240	240	231	222	225	245	5 52	285	22 12	219	22
235	235	228	237	237	231	234	231	226	240	7 12	271	16 48	225	23
240	230	221	222	235	227	225	229	231	241	8 0	266	17 44	217	24
235	228	231	235	236	235	237	240	239	243	7 2	267	16 14	226	25
250	249	248	249	249	249	248	247	247	251	5 50	262	0 14	239	26†
250	248	245	245	249	249	251	254	254	257	5 28	285	17 4	245	27†
269	259	253	241	234	235	240	241	247	265	5 56	308	18 44	229	28
231	231	231	237	236	236	241	242	243	241	5 44	271	11 28	195	29
203	219	221	2 5	225	227	229	239	235	238	5 52	285	12 40	190	30
236	233	235	241	238	238	245	241	241	247	6 12	289	16 34	230	31
222	221	220	222	224	226	227	228	228	235					Mean
240	237	236	237	239	240	240	240	239	247					Mean†

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224	220	227	233	223	228	231	228	233	234	6 28	264	11 44	212	1
236	232	228	229	233	251	234	233	239	245	6 58	285	12 16	220	2
225	226	232	245	230	230	236	231	229	239	5 46	275	13 12	214	3
242	240	239	240	243	236	240	248	243	245	7 12	268	0 0	229	4
231	231	235	237	240	240	240	241	244	252	6 40	295	12 48	222	5
236	229	228	237	247	245	246	247	249	255	7 14	293	16 46	224	6†
247	244	244	240	241	254	257	254	256	254	5 20	279	16 25	236	7
219	221	218	220	224	224	226	231	233	250	6 0	291	15 28	215	8†
261	256	249	249	250	253	254	252	252	257	7 8	280	0 0	235	9†
229	235	236	238	242	245	249	251	252	256	6 52	289	14 58	228	10†
260	256	252	252	254	253	252	253	252	264	6 24	299	17 2	248	11
202	212	213	229	233	233	226	235	199	244	5 49	314	23 44	166	12
184	184	173	159	195	168	184	183	185	185	6 38	239	12 50	117	13
180	178	168	187	191	209	202	194	199	203	6 52	253	17 9	165	14
178	177	188	201	217	216	207	204	205	213	6 19	252	16 16	164	15
206	196	197	216	221	212	224	223	214	220	6 4	248	16 39	191	16
226	223	218	210	221	215	221	221	221	224	8 14	245	18 5	202	17
199	205	207	219	221	217	219	219	219	225	8 18	253	15 0	193	18
220	220	206	202	210	231	225	222	222	233	8 14	267	17 34	191	19
230	225	211	203	207	203	235	223	233	234	7 14	273	20 10	198	20
228	221	218	221	226	2 3	225	231	235	231	7 12	252	16 38	217	21
227	232	232	236	234	229	228	233	240	240	8 46	264	14 50	225	22†
226	238	245	239	234	251	251	251	251	251	6 36	287	14 24	223	23
235	229	231	231	239	239	238	244	248	251	7 38	285	17 34	224	24
208	204	207	207	216	221	231	245	228	229	6 48	265	12 20	186	25
228	224	211	214	226	225	225	223	231	239	6 4	279	17 26	204	26
237	229	231	235	232	236	233	234	238	249	5 46	287	15 58	228	27
190	209	216	227	217	219	232	235	241	240	6 0	293	15 8	183	28
222	221	220	223	227	229	231	232	232	238					Mean
234	235	232	236	239	239	241	242	245	252					Mean†

*The daily mean values of horizontal force derived from 24 hourly values have been corrected for progressive change by 1/48th of the difference between the values of the initial and terminal hours.

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

MARCH. 37000γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	233	238	239	235	249	261	270	255	259	251	224	228	205	218	207
2	232	225	226	23?	244	253	260	257	248	231	210	217	221	228	219
3	221	220	217	227	24?	255	260	261	250	225	231	229	224	225	223
4	232	228	227	235	246	249	257	2?9	270	263	248	239	231	223	232
5†	236	236	237	243	255	271	279	283	280	269	256	249	243	238	234
6	235	237	239	246	260	273	286	291	283	273	262	250	243	243	242
7†	242	242	242	247	255	267	277	283	279	267	257	248	244	244	245
8†	244	242	241	244	257	270	278	279	278	273	260	253	248	244	244
9†	247	248	249	254	264	275	295	297	293	287	283	274	263	261	260
10†	263	264	269	277	291	307	318	**321**	316	303	294	285	276	268	265
11	250	254	259	269	280	290	299	296	291	280	272	263	259	257	254
12	238	241	230	228	257	244	219	205	160	175	180	168	**105**	129	148
13	192	200	198	210	211	221	231	220	222	221	217	215	205	181	176
14	206	216	220	222	231	238	249	228	221	220	216	212	210	198	190
15	218	220	220	221	2?8	239	247	233	229	227	215	202	202	197	185
16	222	222	224	238	242	252	265	273	263	242	229	229	214	223	219
17	214	222	216	225	233	240	243	247	251	234	220	223	223	226	231
18	223	224	221	227	236	247	260	269	266	258	249	244	236	229	227
19	216	216	217	.26	235	243	245	245	251	246	242	223	213	199	203
20	218	222	225	235	247	258	258	260	254	247	238	232	223	217	211
21	232	231	239	247	259	272	281	269	261	250	237	231	227	229	223
22	228	226	235	255	259	269	271	269	254	246	243	244	232	230	237
23	229	231	239	255	265	279	287	283	282	258	240	238	243	250	246
24	242	243	248	258	271	262	270	271	221	186	189	195	205	198	179
25	227	231	237	244	256	262	274	270	262	255	248	244	245	241	234
26	240	243	241	253	261	274	282	280	276	269	250	231	232	232	222
27	245	247	256	265	280	287	291	292	250	227	223	219	225	228	224
28	2?8	233	242	254	264	275	282	257	247	242	230	210	220	213	219
29	235	236	250	237	254	265	279	277	270	265	252	218	216	223	230
30	236	239	247	256	273	280	277	275	271	257	247	239	231	2?2	234
31	235	237	248	262	278	295	303	300	293	279	259	239	226	223	232
Mean .	231	233	235	243	254	264	**271**	268	260	249	239	232	225	224	222
Mean+ .	247	247	248	253	265	279	290	**293**	290	280	270	262	254	251	249

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1	232	233	247	268	283	291	301	304	290	276	275	262	243	229	221
2	234	235	240	251	273	288	302	297	287	275	265	254	239	238	230
3†	240	243	249	257	280	293	286	287	285	280	267	259	256	255	250
4†	243	247	255	270	284	303	311	307	291	273	263	254	249	251	248
5†	249	254	263	278	289	305	309	308	302	289	276	267	261	260	258
6	243	246	248	251	267	285	294	299	296	285	277	266	253	249	244
7	230	211	204	219	23	2?9	244	245	241	234	222	217	221	213	209
8	203	218	216	193	199	221	222	208	200	210	204	175	167	183	192
9	222	223	218	219	241	253	263	265	247	237	227	196	194	184	193
10	210	199	199	201	231	239	231	232	222	206	185	**148**	164	192	187
11	223	222	224	220	240	241	246	234	223	198	199	194	191	204	202
12	215	211	220	228	231	244	239	240	245	234	215	207	206	218	214
13	212	205	215	223	241	249	245	248	248	236	219	218	219	219	224
14	225	218	212	221	243	261	262	272	261	242	231	226	225	227	227
15	222	218	221	229	248	267	267	258	248	233	225	213	204	212	217
16	231	225	220	218	235	255	260	256	253	240	224	230	223	213	213
17	236	225	226	230	239	258	273	273	258	235	226	232	226	218	222
18	2?8	229	234	249	269	284	293	287	278	266	258	243	227	214	211
19	237	237	.41	253	263	296	291	289	281	272	277	259	215	193	215
20	234	237	240	253	271	288	233	239	209	215	213	193	196	205	195
21	222	226	223	228	235	261	271	262	230	208	195	212	205	203	189
22	221	211	210	210	237	245	253	252	250	219	207	212	200	206	226
23	229	219	218	216	233	249	261	240	241	241	245	235	219	217	217
24	223	221	219	229	243	255	247	239	230	209	226	2 2	242	229	220
25	231	233	237	246	262	271	283	285	273	257	251	241	241	240	219
26	235	237	234	240	248	263	264	242	231	244	243	245	246	235	225
27†	236	236	237	244	265	282	289	287	275	247	219	215	219	222	222
28†	233	231	234	245	255	255	263	267	258	253	248	243	243	244	239
29	249	252	254	265	278	302	318	**318**	307	287	278	263	255	235	219
30	243	233	232	237	248	263	281	277	261	248	243	246	250	245	243
Mean .	230	228	230	237	252	267	**270**	267	257	245	237	229	223	222	220
Mean† .	242	244	249	260	276	289	**293**	292	283	269	255	247	245	247	243

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

MARCH. 37000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
207	212	208	207	205	222	229	223	228	230	6 0	276	18 46	194	1
206	230	215	234	221	221	226	229	225	229	6 2	263	14 44	197	2
228	226	223	227	230	229	228	237	237	233	5 58	264	1 32	214	3
221	225	225	226	230	233	230	234	236	238	6 56	273	15 16	217	4
232	228	229	227	229	231	231	233	234	245	7 0	286	18 11	226	5†
238	237	238	239	237	237	238	239	240	250	7 0	291	0 0	236	6
243	242	240	239	240	240	239	242	243	250	7 4	285	16 54	239	7†
242	240	241	241	241	241	243	244	245	251	6 18	281	15 50	240	8†
261	255	253	257	257	259	257	258	261	266	5 50	298	16 52	252	9†
265	262	260	257	255	252	253	252	249	**276**	7 12	**322**	23 34	247	10†
237	242	247	251	257	230	219	218	224	258	6 18	302	21 34	207	11
167	166	198	196	174	179	199	192	189	**190**	4 0	268	12 28	**73**	12
206	183	205	210	208	219	218	241	228	210	21 34	253	14 15	159	13
205	201	203	211	231	224	206	201	208	216	6 14	257	14 46	172	14
211	189	192	211	202	208	213	216	215	214	6 28	253	14 12	179	15
218	229	219	220	237	238	215	211	216	231	6 54	275	21 22	207	16
215	216	218	231	224	235	235	231	232	229	7 46	256	15 22	210	17
220	214	214	229	237	212	235	230	222	235	6 58	270	20 2	208	18
219	213	215	215	218	224	225	224	221	225	7 20	255	13 38	187	19
214	207	217	225	233	234	227	222	233	232	7 4	263	15 58	203	20
215	212	223	213	207	205	214	217	230	234	6 18	287	20 16	201	21
224	208	208	220	210	213	220	226	224	235	5 30	279	16 50	199	22
251	248	247	243	231	220	229	234	235	249	8 4	291	19 50	215	23
179	202	210	220	223	219	220	220	224	223	7 0	276	14 58	172	24
223	220	225	225	229	229	235	232	232	241	6 28	278	16 4	218	25
225	230	223	231	235	241	239	239	241	245	6 14	285	14 18	216	26
214	215	217	221	232	232	225	228	227	240	6 42	298	10 26	208	27
220	221	229	231	230	240	239	246	238	238	5 34	289	11 24	200	28
223	214	236	229	227	229	235	241	235	240	6 10	283	15 56	204	29
234	233	237	234	233	233	236	233	233	246	5 14	282	12 28	226	30
235	236	236	235	238	243	237	234	233	251	6 30	305	12 46	219	31
223	221	224	228	228	228	229	230	230	237					Mean.
249	245	244	244	244	244	244	245	246	258					Mean.†

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204	217	210	221	221	223	224	232	234	247	7 2	309	14 50	190	1
239	239	243	251	240	237	244	243	240	254	6 16	309	0 8	233	2
237	234	234	236	236	237	238	241	243	255	5 16	301	15 48	232	3†
242	243	245	238	237	239	236	239	244	259	5 46	313	21 14	236	4†
261	252	249	248	247	247	246	246	244	**267**	6 48	314	22 26	244	5†
213	189	190	195	193	193	201	208	233	242	7 38	303	16 32	179	6
214	223	196	211	216	196	201	226	213	219	6 54	249	17 34	183	7
195	190	189	191	194	210	220	215	211	**201**	5 4	231	5 22	146	8
197	196	211	194	210	209	202	215	219	218	7 4	271	13 34	183	9†
188	186	199	205	197	204	207	205	208	202	4 46	245	11 20	**140**	10
204	218	207	211	224	230	229	209	207	216	5 52	251	12 2	178	11
217	222	232	233	227	233	206	212	215	224	5 24	252	11 24	199	12
223	216	228	235	221	223	223	222	214	226	4 52	258	1 4	201	13
227	222	222	223	231	232	223	218	219	232	7 16	277	2 28	202	14
219	207	211	226	213	219	229	223	227	227	6 4	275	11 54	198	15
219	225	226	227	230	230	230	234	249	232	5 30	264	12 48	207	16
227	225	228	229	229	227	228	224	227	234	6 38	283	13 36	215	17
203	199	214	224	236	223	223	237	237	240	6 14	298	16 6	197	18
227	232	236	215	230	234	235	234	231	245	5 14	308	12 38	182	19
178	192	194	185	207	218	210	215	217	218	5 4	293	15 32	162	20
212	210	216	226	229	229	221	226	225	224	6 38	277	14 4	185	21
216	214	209	224	231	237	227	224	221	223	6 42	258	12 26	191	22
220	224	237	227	227	247	242	222	219	231	6 8	265	13 40	211	23
224	217	241	232	225	273	229	228	227	232	5 16	261	9 12	202	24
210	226	227	225	224	232	238	230	232	242	6 58	289	14 32	196	25
223	226	226	224	225	221	239	238	234	237	5 40	272	14 30	217	26
220	216	225	225	230	239	232	230	232	239	5 44	293	10 58	210	27†
239	241	244	264	252	247	244	244	245	247	17 46	273	0 44	231	28†
213	231	247	244	243	244	243	246	257	260	6 30	**323**	15 3	207	29
246	253	257	247	273	269	268	261	290	255	6 48	285	2 26	229	30
219	220	223	225	227	230	228	228	231	235					Mean.
239	**237**	239	241	239	241	238	238	240	253					Mean.†

*See footnote on page 103.

†Five international quiet days.

MAY. (Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.) 37000γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	263	263	249	244	257	264	276	277	283	279	281	279	269	261	255
2†	251	251	255	260	272	283	291	295	294	289	279	275	272	272	268
3†	266	260	262	272	289	301	**314**	310	300	291	286	278	268	263	253
4	273	274	266	261	275	275	261	251	263	268	267	249	220	206	199
5	222	252	247	225	214	213	219	204	206	193	146	**136**	167	155	168
6	208	208	221	235	209	243	246	249	246	238	221	205	190	197	205
7	225	215	225	222	225	240	257	256	250	229	233	233	228	224	218
8	237	231	226	223	226	227	240	243	242	231	225	226	224	216	222
9	227	221	231	243	252	255	250	244	243	245	236	228	219	217	205
10	234	224	218	221	229	242	257	252	250	238	232	233	236	238	234
11	234	237	244	254	263	266	269	269	267	258	244	241	244	239	239
12	257	244	217	218	233	246	266	259	239	223	229	226	214	204	211
13	236	229	232	245	262	247	242	257	260	237	225	219	229	235	223
14	230	230	230	245	247	261	265	261	265	258	252	245	241	241	243
15	242	243	246	253	263	283	280	271	265	249	244	240	237	236	228
16	251	251	254	269	264	263	256	265	251	244	240	243	255	263	253
17	242	239	238	234	241	234	231	211	243	245	230	203	221	206	197
18	236	238	242	242	248	256	263	264	271	268	260	250	227	223	223
19	233	236	217	234	247	255	264	271	272	264	240	245	249	251	250
20	249	250	253	260	259	252	241	228	235	236	233	229	228	232	239
21	250	255	259	254	260	272	269	273	258	256	246	241	241	241	239
22	245	246	248	259	249	255	271	265	248	212	233	224	214	220	234
23	242	243	248	258	272	285	285	282	274	260	254	249	248	251	251
24†	251	254	254	259	267	279	290	291	286	281	272	264	260	261	259
25	258	258	261	267	270	270	282	286	283	274	266	268	269	265	259
26	244	241	254	261	258	276	281	282	278	270	259	251	245	246	247
27†	247	250	256	266	277	294	303	300	305	294	285	276	274	268	262
28†	264	263	268	278	294	304	305	304	293	281	275	265	255	248	238
29	256	260	268	275	285	293	289	287	281	264	260	259	256	253	256
30	267	273	275	280	278	280	287	283	274	277	277	274	271	261	261
31	227	224	221	227	213	222	230	232	224	230	227	222	226	209	221
Mean .	244	244	245	250	255	262	**267**	265	263	254	247	241	239	236	234
Mean† .	260	259	261	270	282	295	**303**	302	297	288	280	272	266	262	255

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1	213	210	196	207	210	214	230	223	239	222	216	222	223	221	223
2	226	230	228	226	218	233	246	253	234	237	233	221	225	225	223
3	229	231	222	223	223	235	217	218	232	230	217	207	208	226	230
4	237	239	243	252	261	263	268	257	249	229	221	213	215	211	221
5	241	235	239	249	261	268	271	262	261	261	253	250	240	235	235
6	236	237	242	248	255	271	279	272	262	272	266	258	248	245	244
7	262	258	249	241	250	277	265	246	249	243	233	231	219	206	202
8	255	247	239	240	251	263	262	263	252	252	247	248	242	224	230
9	245	250	250	259	255	272	277	280	272	251	239	230	235	236	229
10	245	241	249	253	261	266	264	264	262	249	249	245	246	246	246
11†	244	249	254	261	271	278	278	266	258	255	251	248	246	245	245
12	274	283	290	291	296	317	318	**322**	308	302	289	272	240	235	217
13	246	244	236	240	250	262	275	251	222	225	232	223	231	241	236
14	238	243	237	243	248	242	248	240	228	218	226	229	232	234	235
15†	241	243	249	259	273	282	285	277	274	271	261	265	262	259	259
16	270	275	278	282	282	292	293	264	208	164	131	71	**46**	61	116
17	199	203	205	219	207	220	219	222	223	227	216	220	225	220	219
18	229	226	230	230	231	253	272	278	279	264	250	239	234	227	228
19	223	227	227	235	239	243	249	256	257	252	235	225	224	225	227
20	238	236	232	233	239	254	273	273	272	265	249	227	228	229	226
21	240	244	249	252	255	265	276	279	276	262	244	245	241	236	233
22	244	243	245	252	257	263	269	259	249	248	248	245	244	241	243
23†	250	250	248	246	252	264	271	280	282	281	277	267	255	249	248
24†	254	253	253	258	275	291	301	297	286	272	261	253	251	250	248
25†	251	251	252	261	269	277	282	287	295	291	280	270	261	261	263
26	269	269	270	280	290	295	295	286	279	274	268	260	245	233	225
27	262	264	273	272	296	294	303	289	274	274	273	264	254	249	255
28	251	256	268	262	260	279	297	303	297	286	287	271	261	250	250
29	251	251	252	247	245	258	260	265	265	264	254	243	229	242	247
30	241	245	249	261	240	259	276	290	289	278	269	268	252	245	245
Mean .	243	245	245	249	254	265	**270**	267	261	254	246	238	232	**230**	231
Mean† .	256	256	257	263	273	283	**287**	285	281	276	267	261	255	252	251

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

MAY. 37000γ PLUS TABULAR QUANTITIES.

Hours. (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
252	249	251	254	253	251	251	252	253	261	8 4	287	2 40	241	1
267	269	276	279	280	276	272	272	269	**274**	7 16	298	0 30	251	2†
244	246	251	253	255	255	256	256	263	271	6 8	**328**	15 34	240	3†
217	219	227	229	225	223	223	223	226	241	4 26	289	14 6	193	4
173	205	189	196	199	200	221	218	207	**199**	1 6	259	10 34	**119**	5
202	225	213	209	211	213	221	240	242	221	22 30	256	12 10	180	6
221	222	218	220	237	230	233	227	222	230	5 54	261	1 0	206	7
221	218	218	223	226	226	232	237	235	228	7 36	250	16 22	212	8
207	214	222	217	230	231	231	228	227	230	4 45	263	14 0	193	9
229	228	228	228	229	229	235	230	231	233	6 18	263	2 6	216	10
234	236	237	238	238	239	243	249	246	248	5 32	273	14 52	232	11
217	219	224	225	227	227	225	239	247	230	6 6	271	13 8	198	12
220	236	234	227	226	239	240	234	231	236	4 26	269	14 22	216	13
241	234	232	232	236	236	236	238	244	243	8 12	268	0 42	228	14
228	230	237	237	236	238	237	241	252	247	5 10	288	14 28	222	15
247	231	242	207	220	216	225	221	234	244	3 24	275	17 58	195	16
189	201	213	221	229	229	223	229	233	224	6 2	253	15 6	181	17
227	230	247	244	226	229	229	227	230	212	7 54	273	12 40	214	18
247	236	241	247	248	241	250	249	246	248	8 14	277	1 52	211	19
235	233	239	245	243	241	240	241	244	241	3 34	267	6 40	222	20
244	237	240	240	265	252	243	245	245	251	5 36	285	16 18	234	21
242	241	242	242	236	243	243	243	244	242	6 19	276	8 50	203	22
252	254	250	253	258	258	255	249	249	258	5 30	292	1 12	241	23
257	259	255	254	262	259	257	255	257	264	6 36	294	0 4	251	24†
250	239	233	252	246	246	254	253	251	261	6 52	287	17 10	227	25
247	247	249	247	250	249	247	247	247	255	6 56	284	1 6	237	26
264	261	260	260	263	264	263	265	263	272	8 2	307	0 0	247	27†
234	233	233	237	246	249	251	251	252	263	6 24	309	15 32	232	28†
258	254	249	242	241	247	250	252	262	263	5 10	296	18 52	236	29
264	257	257	267	263	245	256	261	232	267	6 14	295	23 48	221	30
229	239	237	229	230	234	215	217	226	225	19 24	257	12 58	200	31
234	235	237	237	240	239	241	241	242	245					Mean.
252	252	253	255	259	258	257	256	257	269					Mean.†

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221	214	214	217	221	228	240	231	229	221	7 48	244	1 58	186	1
224	229	229	224	239	242	236	226	226	231	7 10	256	11 14	213	2
225	221	226	229	232	237	234	237	233	236	20 2	243	11 42	187	3
222	230	227	221	223	227	235	235	233	235	6 24	274	11 38	202	4
238	238	237	235	240	238	240	234	238	246	5 46	272	22 6	231	5
240	240	242	243	245	245	248	250	249	252	6 14	283	0 12	234	6
224	236	234	229	238	243	241	239	256	240	5 18	288	13 52	197	7
239	240	237	237	258	246	241	243	244	245	19 14	271	12 52	222	8
241	231	233	245	242	241	245	249	249	248	6 22	282	14 4	225	9
244	241	242	242	241	245	242	245	243	249	5 46	268	18 32	239	10
245	245	245	247	248	249	251	257	261	255	5 26	281	15 56	243	11†
241	233	223	225	228	237	233	243	259	265	7 12	**337**	13 54	206	12
230	228	232	231	233	232	236	236	243	238	6 34	281	11 28	216	13
236	237	238	239	239	239	240	240	240	237	6 12	253	9 8	215	14
260	263	262	265	263	266	267	267	270	265	5 2	285	0 0	241	15†
139	152	159	169	169	173	176	176	191	**187**	5 22	302	12 42	**21**	16
217	220	224	225	225	240	238	231	229	221	19 58	246	0 4	197	17
231	224	236	230	220	216	222	226	226	237	7 54	283	16 16	216	18
230	233	235	235	234	237	239	242	241	237	7 10	260	13 50	221	19
235	234	238	238	245	242	239	239	238	243	6 24	281	13 47	219	20
227	239	235	241	244	246	249	249	247	249	7 4	284	15 2	224	21
243	242	243	248	248	249	252	252	252	249	5 2	267	12 40	239	22
247	246	249	250	251	253	252	254	254	257	8 32	28	2 48	246	23†
247	244	247	246	248	249	249	252	252	260	5 50	302	15 50	243	24†
264	265	267	270	267	269	269	269	270	**270**	8 20	299	0 2	250	25†
232	240	250	251	250	252	251	251	255	261	5 34	300	13 42	223	26
251	245	245	259	259	262	259	254	249	266	5 32	319	16 28	242	27
246	237	241	249	264	266	248	258	260	265	7 16	308	15 40	232	28
247	243	235	236	247	244	243	249	250	248	8 34	270	12 10	220	29
241	241	248	246	260	251	246	247	246	256	7 16	295	15 36	238	30
234	234	236	237	241	242	242	243	245	245					Mean.
250	250	251	252	251	252	251	253	254	261					Mean.†

*See footnote on page 103.

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JULY. 37000γ PLUS TABULAR QUANTITIES.

Date.	Hours. (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	247	254	254	261	264	264	272	265	269	266	257	248	245	249	248
2	254	253	254	257	263	268	280	283	282	278	280	265	261	261	246
3	255	257	257	261	272	279	280	282	275	272	274	270	270	245	241
4	250	247	251	251	258	268	282	291	272	271	256	248	244	243	247
5	259	253	248	250	258	270	268	273	265	268	272	260	250	249	250
6	251	251	248	244	256	275	286	293	289	285	280	266	254	249	250
7	253	255	253	248	257	268	275	274	274	268	263	261	257	251	249
8†	256	254	257	265	268	274	286	291	288	279	269	261	260	261	260
9	255	250	254	256	268	281	287	291	295	296	291	286	278	269	265
10	269	276	290	255	247	251	251	264	280	219	204	207	205	217	222
11	260	266	278	234	207	243	256	265	265	264	251	232	226	229	2 6
12	232	229	238	245	239	246	223	226	246	253	244	226	241	238	232
13	242	246	246	247	247	251	242	264	271	260	249	226	225	232	230
14	241	251	244	247	249	253	257	263	261	264	260	254	241	237	239
15	252	247	247	251	260	265	277	277	274	267	255	238	229	232	235
16	246	250	254	271	285	293	295	281	281	266	251	254	247	241	240
17	234	245	246	249	263	273	277	260	271	267	251	246	245	236	240
18	254	255	257	258	259	264	267	272	272	274	269	257	251	249	251
19	258	257	259	266	277	285	292	297	281	268	264	260	253	249	245
20†	252	256	256	259	263	276	287	281	274	270	264	259	253	252	252
21†	258	263	268	270	277	291	293	284	278	274	265	269	256	252	249
22†	256	255	257	259	264	269	270	279	278	277	269	258	255	252	252
23†	250	254	264	272	279	288	290	285	281	277	264	251	240	249	256
24	263	264	263	264	272	283	292	297	295	287	277	269	269	268	266
25	272	280	295	289	279	284	271	253	257	242	220	212	220	252	246
26	250	254	255	244	273	291	271	278	287	275	258	233	228	233	233
27	251	251	254	255	256	268	269	269	264	269	264	256	252	259	251
28	261	260	253	252	260	269	279	279	272	266	264	264	260	257	255
29	261	264	262	254	251	271	279	279	272	270	269	241	228	246	247
30	256	255	255	255	255	256	260	251	251	250	255	257	260	256	255
31	257	265	265	267	269	287	296	302	300	290	280	270	261	259	258
Mean . .	253	255	257	257	261	271	275	**276**	274	269	261	252	247	247	247
Mean† . .	255	258	261	266	271	280	**286**	285	280	276	266	260	**252**	253	254

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1	256	256	252	257	256	266	274	278	265	265	270	270	265	258	253
2†	265	266	269	275	278	283	291	293	301	298	287	275	263	255	242
3†	263	261	255	255	256	280	287	292	295	287	286	279	269	267	264
4†	268	273	277	282	283	287	287	291	293	290	282	277	277	272	268
5	267	264	261	264	271	281	285	285	294	293	291	293	288	280	281
6	267	269	263	281	296	268	261	258	258	257	270	259	218	172	189
7	254	267	251	240	247	250	226	231	219	215	201	**162**	203	209	207
8	250	254	241	247	251	254	249	255	249	253	249	234	243	222	216
9	241	238	234	231	245	246	231	250	238	216	201	202	192	201	220
10	248	249	249	250	249	254	258	255	249	234	238	246	240	227	2 9
11	254	246	241	252	259	279	281	262	262	263	226	231	235	239	241
12	250	250	243	231	225	236	241	257	253	251	251	248	234	211	225
13	251	244	231	239	248	232	244	249	239	242	238	242	241	246	24
14	246	250	253	261	277	295	**311**	301	300	285	265	256	252	247	243
15	246	241	257	267	268	282	278	267	255	270	259	248	236	228	214
16	248	251	251	256	259	267	261	265	264	260	253	241	233	246	241
17†	263	256	251	247	248	258	267	280	279	276	269	266	265	262	258
18	266	260	255	255	265	277	283	286	280	273	268	260	257	264	26
19	265	260	247	248	257	265	266	278	267	236	210	210	219	225	22
20	252	251	257	261	267	275	279	291	296	287	279	278	278	274	26
21	263	267	267	265	271	274	283	289	292	293	296	285	266	272	278
22	251	256	253	235	241	263	266	244	255	257	250	247	244	241	239
23	258	266	259	257	276	289	297	288	271	282	278	267	256	246	246
24	257	257	260	258	267	272	282	285	287	279	257	254	255	253	258
25	250	250	249	239	241	262	278	286	282	271	263	260	250	251	245
26	263	262	257	255	263	273	287	297	295	289	283	277	268	263	257
27	267	267	268	269	269	277	276	279	278	277	274	264	260	248	250
28†	260	257	255	256	267	277	285	296	296	292	286	277	273	269	272
29	265	270	265	264	264	272	281	291	289	287	283	278	274	270	269
30	266	265	265	270	267	278	283	284	288	289	292	287	281	274	272
31	266	263	264	261	256	262	271	274	275	269	263	257	251	255	255
Mean . .	258	258	255	256	261	269	273	**275**	273	269	262	256	251	247	246
Mean† . .	265	263	262	263	267	278	284	291	**283**	289	282	275	269	265	261

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JULY. 37000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
253	244	244	250	247	248	248	250	259	254	6 6	274	16 34	230	1
249	262	262	249	257	255	247	242	247	261	6 42	286	14 28	235	2
241	255	254	248	259	260	252	251	251	261	7 18	287	15 2	237	3
237	238	242	261	255	250	251	251	259	255	7 14	298	15 16	233	4
253	251	245	246	255	257	254	251	253	256	9 42	279	17 28	242	5
253	252	253	253	253	253	253	253	253	261	6 56	294	3 20	239	6
253	256	256	256	258	261	253	252	256	259	6 0	278	3 4	246	7
255	255	256	251	252	256	255	256	257	263	6 48	293	18 20	249	8†
283	297	297	301	303	299	300	300	282	**283**	21 48	321	1 4	248	9
224	225	226	251	239	239	239	256	254	241	1 48	298	10 28	**197**	10
233	237	234	232	233	226	226	232	233	241	1 45	290	3 30	202	11
232	241	243	245	241	240	272	241	241	**240**	20 48	290	6 20	210	12
219	212	241	237	234	241	243	241	237	241	7 58	273	16 14	203	13
239	239	249	247	251	252	254	255	255	250	7 12	267	13 34	233	14
239	239	242	238	239	239	239	242	246	249	7 36	280	12 36	225	15
241	237	236	241	248	253	248	243	237	255	5 18	300	16 22	227	16
236	234	237	244	243	244	248	251	252	250	5 50	283	13 36	227	17
252	253	247	248	249	258	261	258	258	258	7 26	277	17 16	244	18
248	251	253	253	252	253	258	251	252	262	6 50	299	13 42	242	19
256	259	261	263	263	264	262	259	257	263	6 10	287	12 22	251	20†
249	247	248	251	255	255	251	251	254	263	5 20	300	21 36	248	21†
252	255	260	259	255	258	255	251	251	260	7 2	281	14 8	249	22†
251	255	255	254	264	260	260	259	259	263	6 16	292	11 54	238	23†
264	263	259	255	259	262	274	**312**	294	274	22 23	**334**	18 38	255	24
238	240	241	255	249	244	249	253	251	253	1 56	305	10 58	205	25
239	241	243	253	263	251	250	251	251	254	4 48	298	11 49	220	26
257	255	256	260	261	257	255	253	265	259	8 44	274	13 46	248	27
255	251	255	252	256	266	268	252	256	261	6 52	284	15 58	246	28
242	239	247	250	255	250	251	256	261	256	5 54	284	11 34	208	29
255	257	255	256	252	253	255	259	254	255	17 34	269	8 52	244	30
258	259	261	260	263	267	263	256	255	270	7 26	306	21 49	254	31
247	248	250	252	254	254	255	255	225	257					Mean.
252	254	255	255	257	258	256	254	255	263					Mean.†

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251	252	256	263	265	261	258	262	265	262	6 54	279	15 16	249	1
245	252	252	262	257	257	259	257	261	269	8 18	304	14 28	239	2†
264	264	265	265	268	264	260	266	268	270	7 44	301	3 58	252	3†
268	264	264	263	265	266	264	262	265	**275**	8 2	295	22 18	261	4†
276	275	266	278	257	245	249	249	259	273	7 47	297	19 48	241	5
211	213	199	200	214	234	249	242	240	241	3 54	304	12 49	157	6
215	226	232	227	245	234	234	243	261	**229**	0 38	283	11 16	**134**	7
225	232	243	243	**233**	238	240	238	240	241	3 38	262	13 40	199	8
229	227	227	237	236	245	254	243	240	230	7 16	256	12 18	189	9
222	232	238	239	**238**	236	241	244	245	242	5 54	261	14 22	211	10
231	237	236	246	**249**	247	254	249	247	249	5 48	287	10 13	217	11
232	228	251	242	260	255	247	250	259	243	18 59	265	12 56	202	12
246	246	251	260	250	251	251	250	246	245	17 42	274	4 56	221	13
242	243	242	254	259	272	274	254	248	264	6 14	**314**	14 12	240	14
206	225	231	239	240	242	245	245	246	247	4 58	287	15 4	203	15
235	221	219	221	237	239	256	251	251	247	5 0	269	16 26	215	16
253	257	254	254	251	252	251	253	256	259	7 58	285	3 2	247	17†
264	265	265	260	261	260	260	257	270	265	7 0	288	21 50	249	18
229	240	245	246	250	247	251	251	251	245	7 16	281	11 34	204	19
256	251	254	260	259	267	275	261	264	268	7 42	298	15 30	248	20
274	257	269	269	267	270	247	251	247	271	10 26	300	21 21	237	21
244	243	252	253	256	261	261	256	261	251	5 28	278	3 0	225	22
234	244	251	262	253	264	271	259	256	264	6 10	300	15 26	224	23
256	245	236	236	244	250	258	258	257	259	7 42	292	17 26	228	24
245	254	258	259	259	264	272	264	262	259	7 24	289	4 4	237	25
249	257	266	264	260	265	264	269	273	269	7 14	301	15 6	247	26
252	251	249	252	255	259	258	255	256	263	6 48	282	13 12	239	27
269	269	265	269	265	257	262	267	261	271	7 20	299	2 42	253	28†
262	262	267	261	272	274	273	265	265	272	7 22	293	18 32	258	29
269	267	267	267	265	270	275	273	271	274	9 16	294	0 6	264	30
252	254	248	255	261	262	265	266	266	261	7 34	279	16 58	245	31
245	247	249	252	253	255	257	255	257	257					Mean.
260	261	259	263	261	**258**	258	261	261	269					Mean.†

*See footnote on page 103.

†Five international quiet days.

SEPTEMBER. (Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.) 37000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	266	272	272	282	277	265	243	241	245	249	235	218	201	203	200
2	247	248	252	244	251	243	256	266	266	257	239	250	254	252	258
3	262	264	267	269	264	263	264	258	250	240	232	230	209	200	182
4	236	229	232	229	218	214	229	241	240	206	201	206	225	236	235
5	247	251	250	244	251	261	271	275	271	272	269	256	247	252	239
6	255	253	255	260	272	282	281	276	287	272	230	287	188	229	232
7	244	243	246	249	265	275	280	276	254	261	219	253	247	246	247
8	260	252	243	243	257	265	259	266	266	265	260	261	263	261	255
9	265	265	261	258	263	275	278	280	282	279	243	219	205	208	216
10	255	249	243	238	235	239	247	247	251	249	251	251	247	252	248
11	264	264	260	260	268	294	309	319	314	294	278	270	263	265	256
12	267	262	264	267	274	283	283	279	283	276	273	271	265	265	262
13	263	258	258	255	267	278	295	305	305	295	284	275	272	273	269
14†	260	262	253	247	249	262	277	287	291	285	274	264	252	249	247
15†	265	265	269	277	288	304	302	299	289	282	274	274	269	269	269
16†	270	274	282	289	305	316	322	321	314	305	296	280	270	269	274
17	279	282	283	291	302	324	335	333	327	328	314	296	276	248	239
18	283	282	281	288	299	307	311	314	307	311	279	190	166	96	69
19	235	215	199	199	209	212	208	213	219	217	208	203	217	228	231
20	245	248	240	246	255	265	271	275	271	262	267	267	260	253	253
21	266	268	265	266	272	292	300	292	262	223	207	232	243	241	226
22	254	252	251	254	266	277	280	277	273	275	275	271	264	262	262
23	269	267	271	277	286	302	311	307	289	268	249	264	266	262	265
24	269	277	271	273	287	298	305	307	296	267	273	269	261	268	269
25	272	274	268	264	276	292	297	299	292	282	275	276	278	278	272
26†	278	275	269	269	273	291	306	311	309	303	293	284	280	282	277
27†	286	284	277	277	289	301	311	313	304	295	283	278	279	282	278
28	285	286	285	281	288	309	318	315	316	321	312	282	249	245	253
29	270	267	267	260	259	267	268	283	275	232	222	231	204	160	183
30	262	263	260	229	216	202	197	193	173	180	187	209	214	224	228
Mean . .	263	262	260	259	266	275	281	282	277	268	257	254	244	242	240
Mean† . .	274	275	272	273	282	296	305	307	302	295	284	276	270	270	268

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1	251	256	260	266	279	292	292	270	255	235	220	221	214	221	229
2	249	252	247	256	267	285	284	281	284	276	271	262	239	248	244
3	266	266	259	255	261	262	271	281	282	281	258	197	226	234	239
4	263	260	252	254	258	263	267	276	272	255	247	229	213	215	235
5	261	263	263	269	278	283	285	280	271	267	255	250	248	242	237
6	258	254	263	274	283	295	298	302	296	267	263	263	263	256	255
7	264	265	265	277	285	285	291	295	293	285	272	268	269	267	274
8	274	273	270	270	274	269	274	269	260	241	230	221	207	204	209
9	265	265	266	274	282	300	310	312	301	281	266	257	250	247	253
10	284	285	282	279	280	294	306	311	309	302	296	290	286	283	277
11†	275	275	271	271	279	289	299	299	289	276	270	267	262	258	262
12	278	279	276	280	290	301	306	310	307	302	293	285	281	276	276
13†	285	286	287	292	299	309	317	323	320	308	295	290	285	282	284
14	285	286	284	286	295	347	362	366	366	366	345	311	300	275	281
15	224	225	234	250	263	273	279	281	276	268	262	261	260	260	260
16†	264	267	266	274	279	282	292	299	299	295	285	271	262	265	264
17	277	282	286	292	297	303	296	268	251	246	234	207	177	153	121
18	191	192	203	224	241	258	274	278	279	278	265	247	224	228	238
19	256	259	256	257	268	278	282	284	268	238	246	247	250	250	252
20	259	260	260	265	268	275	278	286	282	230	224	249	247	247	246
21	263	268	272	275	274	274	283	286	270	272	268	271	270	270	269
22	272	270	269	271	280	288	296	299	291	286	282	276	275	273	275
23†	276	273	276	277	281	288	299	306	300	289	281	277	273	277	277
24†	277	279	283	292	303	312	319	318	312	305	298	293	290	288	285
25	287	283	283	291	300	308	313	312	305	294	294	294	303	301	290
26	284	282	284	281	280	296	302	283	258	259	251	248	205	135	140
27	260	260	259	268	261	255	272	276	264	257	245	206	211	229	230
28	252	253	246	261	275	272	283	275	263	244	231	247	244	227	231
29	258	258	264	271	269	279	288	283	267	243	212	205	229	235	238
30	262	261	264	271	263	272	279	275	261	252	251	248	250	245	253
31	259	262	266	272	274	278	278	279	273	265	260	240	239	248	251
Mean . .	264	264	265	271	277	286	293	292	285	273	264	255	250	246	248
Mean† . .	278	278	279	283	290	297	307	310	305	295	286	280	274	274	274

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

SEPTEMBER. 37000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.).									*Mean.	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
203	223	235	230	231	235	239	241	244	239	3 18	287	12 34	180	1
262	259	259	256	257	264	268	267	261	256	20 39	273	9 50	233	2
186	183	208	209	218	227	238	245	240	233	3 22	271	13 50	169	3
235	237	237	238	242	242	240	242	243	231	20 10	247	9 42	196	4
250	235	228	228	254	255	270	257	254	254	6 44	281	17 40	217	5
242	232	232	251	238	246	243	243	244	251	6 58	291	10 40	162	6
246	238	238	236	245	249	248	247	256	251	6 31	284	17 34	232	7
257	253	245	245	249	261	267	261	261	257	20 22	273	17 10	240	8
227	227	243	243	239	252	251	248	256	249	8 20	286	12 38	200	9
247	248	253	255	260	260	256	260	265	251	19 26	265	3 38	232	10
247	251	252	251	259	261	265	265	269	271	7 36	326	15 42	245	11
255	256	255	260	261	258	255	269	265	267	5 42	286	15 2	253	12
269	269	270	270	269	269	263	263	260	273	7 28	309	3 10	252	13
251	256	260	263	265	267	267	264	265	263	8 10	296	3 13	245	14†
268	262	256	255	264	266	264	265	268	273	5 24	308	18 0	253	15†
273	272	282	274	269	269	269	273	277	285	6 38	324	12 26	265	16†
244	254	257	264	265	270	276	278	281	285	6 24	345	14 44	231	17
136	147	146	185	197	209	115	225	239	223	9 4	321	13 50	35	18
244	229	233	243	237	240	248	251	248	225	22 4	254	10 50	190	19
254	250	251	250	254	262	260	266	267	259	7 12	276	2 6	237	20
224	223	230	233	237	243	248	255	256	250	6 6	303	9 48	201	21
262	262	262	262	262	266	266	266	267	266	5 54	281	2 22	251	22
263	260	262	267	272	267	267	272	271	273	6 8	315	10 2	239	23
262	263	268	262	260	268	268	268	269	274	6 50	309	9 13	255	24
272	273	273	278	285	276	272	274	285	279	6 42	300	2 46	263	25
277	278	275	277	278	281	280	280	283	284	6 34	312	2 34	267	26†
276	278	279	282	281	284	287	287	287	287	6 56	317	14 26	273	27†
258	266	270	261	284	271	284	279	271	283	9 5	327	12 18	240	28
205	230	241	236	263	269	258	255	263	244	9 16	294	13 4	150	29
231	231	239	233	242	242	243	244	247	224	1 32	276	8 32	156	30
244	245	248	250	255	258	256	260	262	259					Mean.
268	268	269	269	270	272	271	272	274	279					Mean.†

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233	238	233	259	251	248	247	252	255	249	5 18	298	12 14	209	1
255	261	254	268	269	267	265	274	270	264	5 50	296	12 2	230	2
214	204	230	247	241	248	254	247	250	249	6 58	282	10 50	182	3
249	241	248	249	259	276	261	256	259	252	19 34	283	11 46	202	4
234	241	241	245	250	249	255	256	257	257	5 34	292	16 38	224	5
257	267	263	263	273	283	267	265	265	271	6 54	304	12 54	252	6
259	249	253	266	277	276	265	278	273	243	6 46	296	16 30	243	7
211	220	231	251	243	257	261	261	263	247	6 10	277	12 58	199	8
259	262	269	279	274	274	277	285	288	275	7 2	314	13 26	241	9
275	268	285	272	281	280	279	276	276	285	7 18	311	16 42	264	10
260	256	257	262	262	266	271	275	277	272	6 30	302	12 42	257	11†
276	276	275	274	281	279	285	282	284	286	6 46	311	16 38	273	12
277	271	272	272	276	281	281	281	282	290	7 2	323	16 30	269	13†
295	282	264	279	268	239	233	210	220	292	8 14	373	22 2	202	14
259	261	259	259	260	264	266	266	264	261	6 34	282	0 54	223	15
265	265	268	268	268	269	271	271	272	275	6 58	302	11 58	260	16†
98	114	119	159	131	131	130	176	188	204	5 34	309	14 58	89	17
237	234	235	238	243	248	250	242	249	243	7 54	284	23 46	188	18
253	252	255	260	259	266	265	268	268	260	6 22	285	8 58	233	19
254	274	258	251	265	261	260	264	266	260	7 54	291	9 22	203	20
263	262	254	262	275	268	268	270	272	270	6 46	288	16 54	251	21
272	270	281	270	264	266	269	272	273	277	7 2	299	19 18	261	22
275	273	272	276	277	277	281	279	278	281	6 46	307	17 22	268	23†
283	285	284	286	287	284	281	285	286	292	5 54	321	0 42	254	24†
284	282	259	267	285	279	277	278	275	289	5 42	315	17 54	246	25
188	202	194	202	228	244	241	240	254	240	6 14	305	13 10	107	26
242	241	242	242	258	264	276	252	247	251	20 58	284	11 2	192	27
249	252	246	265	243	276	262	258	256	255	6 14	286	13 18	218	28
228	251	247	262	268	256	258	271	264	255	6 26	290	11 10	197	29
263	248	246	268	260	281	275	256	258	261	20 18	294	13 30	236	30
272	258	251	266	264	261	268	269	267	263	6 26	282	11 34	230	31
250	250	250	258	259	262	261	262	263	265					Mean.
271	269	270	271	273	274	275	276	276	282					Mean.†

*See footnote on page 103.

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

NOVEMBER. 37000γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	265	263	267	276	288	300	302	299	289	273	260	252	238	241	237
2	266	269	270	280	291	299	310	316	308	300	295	285	276	268	263
3	278	273	269	271	281	294	308	305	295	286	282	279	277	278	277
4	284	288	294	302	308	327	334	325	307	299	247	205	214	226	230
5	276	273	276	283	294	300	307	307	302	294	282	276	268	267	266
6	271	274	276	281	293	306	309	307	303	296	289	285	268	263	266
7	284	285	286	291	302	310	316	311	302	293	290	286	288	282	285
8	291	295	297	296	310	323	329	320	314	297	291	294	291	288	285
9	286	291	287	292	288	292	303	305	300	286	274	273	279	279	274
10	285	287	291	298	308	310	306	300	299	295	290	286	282	282	282
11	282	283	290	299	303	311	316	314	307	301	295	291	287	286	288
12†	294	294	290	290	294	299	307	308	306	303	299	295	290	290	289
13	292	294	299	306	314	317	325	325	320	314	309	305	299	295	293
14	307	308	323	327	332	331	322	316	317	311	313	315	315	308	303
15	219	223	238	247	268	271	265	261	265	261	248	237	244	249	255
16	259	263	266	275	281	286	290	290	288	277	275	275	272	269	268
17	274	273	278	285	285	287	293	290	272	264	263	254	250	264	269
18	277	277	287	299	305	308	307	299	294	291	289	288	287	284	280
19†	277	280	288	298	306	311	309	305	295	284	282	282	282	282	281
20†	281	287	294	301	304	310	313	300	300	287	283	283	286	287	285
21†	287	291	300	312	317	322	322	323	314	299	291	291	290	288	287
22†	290	295	308	321	331	339	339	332	323	315	312	304	299	299	298
23	302	306	314	322	333	344	347	341	327	316	299	289	275	268	273
24	266	272	275	287	287	278	273	289	272	265	269	249	223	226	231
25	257	276	272	266	266	251	267	276	257	218	194	203	196	186	186
26	260	248	244	249	257	268	275	261	263	263	258	257	251	245	254
27	263	265	271	279	287	289	285	280	279	271	258	249	255	253	247
28	267	271	269	269	275	279	287	287	269	266	265	251	249	249	258
29	272	277	282	286	293	299	303	300	291	281	285	283	277	277	270
30	276	280	287	293	300	300	296	295	286	285	284	273	257	261	268
Mean . .	276	279	283	289	297	302	**306**	303	295	286	279	273	269	268	268
Mean† . .	288	291	298	306	312	318	**319**	317	308	298	294	291	290	289	288

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1	274	276	288	286	290	298	299	294	288	279	270	271	270	270	274
2	281	283	289	298	309	319	319	317	307	294	289	285	281	279	277
3	293	305	333	341	363	359	355	352	343	318	289	245	186	149	98
4	209	215	232	229	225	231	234	236	226	223	203	185	183	158	152
5	237	246	251	270	278	289	295	293	289	279	271	267	265	267	267
6	265	266	273	281	289	295	297	293	287	277	272	272	275	275	275
7	270	283	284	286	296	305	308	306	297	287	279	274	275	272	261
8†	280	283	287	297	304	311	317	310	304	299	293	289	287	278	277
9	287	289	293	303	315	322	329	331	325	319	305	297	287	279	276
10	290	291	295	302	310	317	323	319	308	297	296	290	286	283	285
11	291	295	299	304	310	315	317	315	310	303	299	300	293	287	289
12	295	298	305	315	323	331	331	320	311	309	312	312	309	306	300
13	294	295	298	315	317	313	312	312	303	302	298	290	279	265	276
14	283	286	292	299	307	306	314	316	301	305	302	293	281	279	285
15	291	292	295	305	311	317	319	319	315	308	298	294	283	279	276
16†	292	293	299	310	315	318	322	319	314	304	301	299	295	291	293
17†	296	299	307	312	316	316	316	315	299	304	300	297	299	300	300
18†	295	298	305	312	316	319	321	317	314	315	315	313	311	308	307
19	309	311	317	322	325	329	327	326	315	309	307	312	315	299	293
20	303	303	306	311	315	322	335	329	322	321	316	299	295	299	296
21	283	281	283	293	303	301	296	274	256	225	229	240	234	254	247
22	266	266	271	279	285	281	294	298	295	291	289	280	272	268	259
23	279	279	283	292	295	295	299	298	292	289	285	279	276	279	278
24	284	286	286	281	285	293	300	296	290	295	296	289	272	262	254
25	281	285	283	281	290	301	307	307	303	295	292	283	270	275	285
26	286	289	291	296	304	312	310	300	295	295	296	293	289	285	287
27	287	289	294	297	300	305	314	310	310	305	294	290	287	283	282
28	289	291	294	298	300	306	314	314	309	306	304	302	294	293	291
29	293	296	303	311	314	323	332	332	323	310	305	304	304	303	311
30	299	300	308	317	325	331	335	333	329	312	299	291	287	290	288
31†	297	299	303	307	308	312	314	314	310	309	306	306	304	303	304
Mean . .	283	286	292	298	305	309	**313**	310	303	296	291	285	279	275	272
Mean† . .	295	297	303	310	314	317	**320**	316	309	307	303	301	299	296	296

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

NOVEMBER. 37000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									*Mean.	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.		
235	232	233	242	244	257	260	261	263	262	5 34	305	12 30	226	1
249	241	254	262	268	274	276	278	272	278	6 50	318	15 30	237	2
277	279	278	276	277	280	282	281	281	282	6 54	309	2 6	268	3
241	249	251	255	256	259	269	277	274	272	5 50	339	11 22	194	4
262	267	267	263	267	281	279	270	268	279	6 18	310	15 38	257	5
271	272	274	277	277	277	278	280	284	283	6 2	311	12 30	263	6
285	289	292	288	286	282	281	283	286	291	6 6	317	20 14	277	7
283	269	269	274	283	292	297	291	291	295	5 46	330	16 30	265	8
270	271	278	287	283	281	285	287	287	285	6 14	305	10 50	267	9
281	277	280	282	286	284	282	282	282	289	4 58	313	15 46	276	10
286	286	287	290	289	290	290	290	291	294	6 30	317	23 42	282	11
289	285	286	285	286	287	290	290	290	293	6 26	310	16 10	285	12†
293	294	294	296	296	311	300	308	311	305	6 38	327	23 50	291	13
302	292	267	234	206	194	191	215	215	284	2 30	343	20 22	**165**	14
250	251	254	257	259	260	261	260	261	253	5 18	277	23 54	213	15
268	266	264	264	269	270	268	269	268	273	7 30	295	0 6	256	16
272	268	272	274	269	266	272	277	277	273	5 50	295	11 46	246	17
272	273	267	271	273	271	283	278	275	285	5 30	309	15 34	265	18
277	280	277	277	281	281	283	283	281	287	5 18	311	17 34	275	19†
286	285	287	286	285	288	285	283	283	291	6 2	314	9 58	280	20†
287	286	285	289	289	286	286	292	291	297	5 34	323	16 58	285	21†
296	296	298	296	297	298	301	300	301	**308**	5 30	339	23 38	290	22†
273	269	268	267	251	253	277	263	263	293	5 18	**351**	19 22	245	23
230	246	243	238	262	254	251	273	263	259	6 54	292	11 54	218	24
224	232	**188**	202	232	226	230	258	262	**235**	1 6	285	13 2	176	25
253	265	256	265	261	260	260	259	260	258	5 42	278	12 42	238	26
250	272	257	270	265	261	266	267	267	267	4 50	291	11 34	240	27
264	267	268	268	274	279	273	269	270	269	6 30	290	12 6	245	28
267	259	262	272	272	279	271	271	271	279	6 10	304	16 10	255	29
269	266	271	268	264	265	266	271	273	277	4 30	302	11 54	255	30
269	269	**268**	269	270	272	273	276	275	280					Mean.
286	286	286	**285**	286	287	287	288	287	295					Mean.†

DECEMBER.

272	270	270	275	279	279	279	279	279	280	5 46	299	12 34	265	1
276	279	279	280	281	283	290	288	290	291	5 38	320	14 42	274	2
117	91	73	**63**	68	127	161	207	200	225	4 18	**368**	18 46	**48**	3
165	200	213	219	220	226	230	235	234	**212**	6 58	239	13 46	145	4
265	266	261	261	262	262	263	264	264	269	6 2	295	23 46	230	5
274	272	270	270	275	266	268	270	268	276	6 34	298	0 30	262	6
251	270	271	275	278	279	280	277	279	281	5 38	309	15 6	247	7
278	281	283	282	284	285	285	286	285	290	6 2	317	14 30	274	8†
273	273	273	281	282	282	286	288	289	295	6 58	333	16 54	269	9
286	292	292	293	293	293	289	293	293	297	6 14	323	13 42	281	10
290	289	290	293	291	291	290	291	295	298	6 30	318	12 46	286	11
287	274	270	286	292	299	299	293	289	303	5 30	333	16 48	268	12
274	265	272	262	271	277	275	297	290	289	3 18	320	12 30	258	13
291	295	301	285	287	286	281	284	289	294	7 10	316	13 6	273	14
282	284	288	290	292	285	285	287	290	295	6 50	320	13 34	271	15
295	294	291	289	291	290	292	292	294	300	6 6	322	18 30	288	16†
298	298	296	297	297	297	297	297	298	302	4 14	318	21 30	291	17†
304	303	309	309	309	304	308	304	305	**309**	5 42	322	18 38	292	18†
278	281	305	310	308	295	294	297	302	308	4 54	329	15 14	277	19
299	272	263	235	275	247	266	272	278	295	5 58	335	18 6	220	20
247	245	251	253	251	263	265	272	273	263	4 10	309	9 30	206	21
258	270	278	262	278	275	271	275	276	277	6 54	299	15 14	253	22
273	281	265	266	275	276	284	282	280	283	7 2	301	15 26	265	23
263	259	263	270	272	271	274	279	280	279	6 10	302	14 18	251	24
283	281	285	283	285	290	285	281	284	287	5 54	308	11 58	267	25
280	276	276	289	287	287	286	296	288	291	4 58	312	16 54	270	26
287	288	284	286	282	285	282	290	293	293	5 42	314	19 10	279	27
291	289	291	293	293	295	295	296	293	298	6 30	315	15 42	287	28
312	311	303	300	301	296	289	282	303	307	6 2	332	21 30	277	29
291	290	290	289	297	297	295	292	294	303	6 2	336	14 18	285	30
305	301	296	295	303	305	302	305	302	305	5 38	315	17 58	292	31†
272	272	273	**272**	276	277	279	282	283	287					Mean.
295	294	294	**293**	295	294	294	294	294	301					Mean.†

*See footnote on page 103.

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JANUARY. 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	758	761	764	766	752	734	729	739	745	747	745	744	741	745	749
2	755	756	757	763	762	751	735	740	752	760	760	754	749	752	754
3	757	759	760	757	747	735	729	731	738	744	749	746	740	742	748
4	752	753	755	756	752	748	741	747	758	761	754	745	744	744	749
5	748	749	749	751	746	733	731	740	742	743	743	746	740	739	746
6	749	749	750	758	765	760	759	755	759	763	756	751	747	750	756
7	758	761	765	765	755	740	736	748	759	762	759	754	747	753	757
8	760	762	765	767	766	744	736	744	759	763	762	759	755	756	757
9	764	766	767	766	761	755	748	753	763	764	769	772	767	763	754
10	761	762	763	770	761	736	713	715	719	737	745	747	749	752	753
11†	754	755	754	757	769	750	729	742	752	746	739	742	744	743	745
12†	747	748	751	759	742	709	695	715	729	731	733	738	739	745	749
13	751	752	752	759	767	764	755	745	745	741	743	751	752	750	751
14†	745	745	743	748	756	748	731	719	730	732	729	734	737	742	746
15	748	749	748	755	764	757	737	734	747	757	758	759	753	752	757
16	764	764	764	769	771	751	733	737	749	758	768	770	768	768	773
17	768	770	775	780	769	746	734	744	759	763	764	765	764	767	770
18	768	768	765	767	766	745	730	740	760	761	766	773	770	767	771
19	767	768	772	774	767	740	738	742	754	763	766	762	761	762	767
20	763	765	766	770	761	742	721	732	749	761	767	767	761	760	764
21	761	763	765	760	753	742	737	747	751	753	758	762	762	762	763
22	761	760	761	768	769	764	747	737	748	753	759	762	758	755	755
23	760	761	767	770	763	741	735	743	751	754	766	773	772	771	772
24	767	768	771	782	790	774	762	758	762	757	764	769	772	769	767
25	769	770	770	772	765	740	731	743	759	766	765	766	766	767	768
26†	766	767	770	771	772	758	750	755	767	770	766	767	767	769	770
27†	771	771	768	772	773	762	737	735	748	755	757	758	760	759	763
28	759	759	761	765	768	762	752	752	765	771	766	760	752	753	756
29	756	758	759	761	758	747	738	740	745	744	743	743	745	752	757
30	746	747	747	752	755	752	737	737	747	757	756	750	744	741	744
31	741	742	741	742	746	741	737	735	740	745	743	740	739	740	743
Mean .	758	759	760	764	762	747	736	740	750	754	755	756	754	754	757
Mean† .	756	756	756	761	762	745	727	733	745	747	744	748	749	751	755

FEBRUARY.

1	742	743	745	747	747	740	734	737	745	750	750	746	745	746	750
2	754	756	757	763	767	761	747	741	742	753	759	764	767	762	767
3	774	775	780	787	783	778	768	765	771	779	786	787	780	779	781
4	773	773	777	781	780	768	749	747	751	755	764	770	768	763	766
5	763	763	766	769	767	760	752	751	751	756	760	766	767	764	766
6†	767	768	769	774	774	764	755	753	762	769	775	782	781	776	777
7	778	779	783	786	787	781	761	747	744	748	751	761	767	769	770
8†	762	761	764	772	772	769	753	737	738	745	750	755	757	752	752
9†	737	737	737	740	741	740	732	727	726	724	723	727	730	733	734
10†	731	731	732	733	736	736	730	721	718	721	718	723	732	736	736
11	748	749	751	756	756	754	749	749	752	754	750	752	755	757	759
12	756	756	756	758	761	759	761	766	764	761	760	760	758	755	761
13	744	749	743	749	753	757	757	754	757	758	759	758	759	749	753
14	746	747	745	751	759	755	754	754	754	751	754	752	748	747	751
15	745	745	746	751	750	748	748	747	746	753	762	767	767	762	769
16	770	767	769	768	772	764	754	754	764	769	770	771	768	765	767
17	767	771	773	777	776	766	761	761	761	765	767	768	770	768	770
18	771	771	774	777	778	764	762	763	764	767	768	767	768	769	773
19	768	767	768	771	767	761	755	755	755	762	764	764	765	765	766
20	769	768	767	773	770	759	751	743	740	751	758	762	762	759	760
21	771	768	769	768	766	760	753	750	759	765	767	768	766	765	767
22†	767	764	765	769	769	765	761	751	760	765	764	762	758	756	759
23	763	760	759	764	761	755	750	749	755	764	768	764	755	752	755
24	764	763	767	768	762	750	739	737	740	745	748	748	749	749	752
25	757	760	761	766	764	764	763	757	758	758	762	761	761	761	761
26	762	765	771	774	769	760	755	758	765	771	770	767	765	764	766
27	763	762	765	767	764	756	754	754	759	764	768	764	757	751	754
28	754	755	756	753	742	729	723	734	744	758	765	762	751	747	754
Mean .	760	760	761	765	764	758	751	749	752	757	759	761	760	758	761
Mean† .	752	751	753	757	758	755	746	737	740	745	746	750	752	751	752

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JANUARY. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
748	748	751	751	750	750	751	750	750	749	2 24	768	5 49	727	1
753	752	752	753	753	753	753	752	752	753	3 39	765	6 3	732	2
745	749	748	748	750	748	747	744	746	746	1 34	762	6 25	728	3
746	750	749	750	750	748	748	749	746	750	9 25	765	5 57	740	4
749	749	749	752	751	751	748	747	747	745	3 15	755	5 51	724	5
749	749	753	754	753	751	754	751	751	754	7 41	772	16 6	741	6
753	750	755	756	753	754	752	754	752	754	2 40	769	6 7	734	7
755	755	756	755	756	756	755	754	754	756	3 50	770	5 42	733	8
758	759	760	759	759	759	757	757	756	761	10 39	774	6 10	744	9
754	753	754	755	757	756	757	756	755	749	3 18	772	7 38	711	10
745	747	748	749	749	748	747	747	747	748	3 58	771	6 4	726	11†
749	749	750	752	753	753	752	752	751	**741**	3 6	761	5 18	**692**	12†
751	751	751	753	753	753	752	751	751	752	4 29	769	9 6	740	13
746	746	747	750	750	750	751	751	747	743	4 10	757	6 50	717	14†
757	759	760	762	764	764	763	763	765	756	23 30	768	6 49	731	15
773	772	775	776	775	775	774	773	773	765	19 2	777	6 23	730	16
772	774	777	781	779	779	778	774	773	768	2 58	783	6 8	733	17
770	770	772	773	773	772	770	770	770	765	19 28	776	6 6	727	18
767	769	771	770	771	770	767	767	766	763	3 42	776	5 22	731	19
761	762	764	765	766	767	766	763	762	759	3 11	773	6 24	717	20
761	762	764	764	763	763	764	761	763	759	2 4	768	5 44	733	21
755	755	754	755	755	756	757	755	755	756	4 30	771	6 47	734	22
771	770	771	771	771	771	771	771	770	764	11 5	775	5 27	734	23
767	766	766	766	768	768	767	767	767	**768**	3 48	**792**	6 56	758	24
766	765	767	768	768	768	766	767	766	763	2 49	773	5 47	726	25
769	768	768	769	769	768	768	767	766	767	3 40	775	6 15	747	26†
763	763	763	763	763	763	762	761	760	760	3 40	776	6 30	725	27†
757	757	758	759	757	757	756	755	754	759	8 41	772	6 42	749	28
757	757	758	757	756	757	756	755	754	752	2 59	763	6 52	735	29
743	745	749	751	751	750	750	750	749	748	9 28	758	6 24	734	30
742	743	746	748	749	749	750	749	747	743	9 10	754	6 50	734	31
757	757	758	759	759	759	758	757	757	755					Mean.
755	755	755	757	757	757	757	756	755	752					Mean.†

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748	750	753	754	754	755	756	757	756	747	23 11	**759**	5 43	731	1
769	772	776	777	777	777	778	777	777	765	18 26	780	7 56	740	2
781	782	785	785	786	785	782	782	781	**780**	2 38	**793**	7 26	764	3
766	766	768	770	770	769	769	767	767	766	3 24	783	6 58	745	4
765	761	763	765	765	765	765	765	764	763	3 1	771	7 19	749	5
776	773	773	773	774	774	773	773	773	771	11 42	784	6 28	750	6†
768	767	761	762	763	760	759	759	758	765	4 12	788	7 40	742	7
750	747	744	745	745	743	741	738	736	751	3 43	775	7 20	735	8†
733	730	729	729	729	730	730	730	729	**732**	4 44	743	9 20	722	9†
734	734	736	739	741	740	741	741	741	733	23 0	741	7 55	**716**	10†
758	757	755	754	756	755	754	754	753	754	4 0	761	6 0	748	11
761	762	762	764	763	762	764	761	761	760	6 49	770	12 41	752	12
753	755	759	758	759	757	751	749	752	754	8 48	768	1 46	741	13
750	747	749	752	751	752	748	746	747	750	3 38	761	1 52	741	14
768	769	768	773	772	772	772	768	767	760	18 2	776	1 12	739	15
769	765	767	767	769	768	765	767	768	766	3 52	773	7 2	752	16
771	770	769	771	771	770	770	770	770	769	3 26	781	8 13	758	17
771	772	774	775	772	771	770	771	771	770	3 50	782	5 22	757	18
766	766	767	763	764	764	765	764	763	764	3 8	773	6 36	751	19
760	761	761	760	760	761	760	761	760	760	3 15	776	7 32	737	20
765	764	764	766	766	765	766	765	765	764	0 0	773	7 1	749	21
758	758	759	761	762	762	761	761	762	761	3 36	770	7 8	748	22†
755	756	756	757	756	754	755	754	750	757	9 49	770	23 18	748	23
753	752	753	753	754	753	753	753	754	752	2 40	770	5 54	735	24
765	763	764	766	761	761	761	760	763	762	18 0	772	6 46	751	25
767	767	767	764	765	765	764	763	762	765	3 4	777	5 58	752	26
752	753	754	754	755	754	753	752	752	757	10 3	769	22 58	749	27
749	749	754	753	751	752	751	750	752	749	10 6	768	5 49	720	28
760	759	760	761	761	761	760	759	759	759					Mean.
751	749	748	750	751	750	750	749	749	750					Mean.†

*The daily mean value of vertical force derived from 24 hourly values, has been corrected for progressive change by $\frac{1}{24}$th of the difference between the values of the initial and terminal hours.

†Five international quiet days.

MARCH.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	747	749	751	741	728	730	727	732	751	771	778	770	765	765	770
2	775	777	779	782	781	771	762	769	766	775	780	776	775	772	777
3	771	774	777	769	746	733	738	746	758	768	771	771	769	767	772
4	771	771	773	773	766	760	753	753	763	772	774	773	773	772	773
5†	762	763	766	764	757	754	752	754	760	765	767	767	765	762	766
6	762	763	765	764	757	746	739	744	751	761	762	761	755	750	754
7†	752	754	755	752	746	740	736	739	749	757	760	755	745	742	751
8†	756	759	761	756	750	745	741	743	748	756	761	760	756	753	756
9†	765	768	771	769	757	751	754	761	767	770	773	771	766	762	765
10†	771	772	777	776	759	751	750	754	766	774	779	780	775	766	767
11	774	777	778	779	775	769	765	769	775	783	786	784	782	780	782
12	776	782	780	778	766	753	762	762	779	782	778	767	775	771	775
13	777	777	774	771	765	749	743	746	758	767	771	768	766	768	772
14	770	772	775	768	751	737	728	733	744	762	765	760	756	756	758
15	762	764	765	759	751	741	735	733	743	760	768	765	760	761	765
16	770	772	774	774	765	751	739	737	750	765	774	776	771	766	767
17	773	775	775	775	766	756	744	744	757	773	780	782	777	772	763
18	781	784	789	781	766	755	751	751	761	767	774	776	775	774	775
19	780	780	784	787	783	774	763	759	767	774	777	775	773	774	773
20	778	779	778	773	763	753	745	746	755	765	770	770	768	768	770
21	783	785	789	784	778	775	770	770	777	788	791	783	774	772	776
22	789	788	789	784	779	771	767	773	777	785	785	779	773	770	771
23	776	776	777	775	768	762	755	753	755	770	769	764	760	760	762
24	759	760	759	757	750	743	739	739	751	756	759	753	748	750	747
25	741	742	740	734	725	719	716	718	726	735	738	732	729	730	734
26	728	729	734	736	732	724	710	707	713	724	725	729	727	724	729
27	730	732	734	729	718	722	726	731	748	759	766	774	776	781	784
28	790	793	797	793	787	783	775	778	786	798	805	804	796	796	799
29	791	793	798	799	794	779	770	774	776	798	804	804	795	791	795
30	793	794	795	788	776	769	764	765	773	782	790	789	783	781	783
31	779	781	783	781	770	760	755	755	763	771	777	769	763	765	767
Mean .	769	771	772	769	761	752	747	750	759	769	773	771	767	765	768
Mean† .	763	765	768	765	755	749	747	751	759	765	769	767	761	756	761

APRIL.

1	756	759	763	755	738	736	729	726	738	749	751	747	743	743	744
2	739	740	744	743	742	747	749	750	759	769	772	773	772	770	773
3†	777	781	782	771	757	756	752	748	756	766	771	770	768	773	776
4†	772	774	776	771	760	753	743	740	749	757	764	768	767	765	766
5†	764	766	771	774	773	769	755	749	757	767	770	770	768	765	766
6	770	771	777	776	769	755	741	743	757	768	771	771	766	763	763
7	765	767	769	757	741	741	742	750	761	769	768	762	761	761	763
8	767	769	770	764	756	752	756	759	769	777	775	773	777	767	770
9	771	773	773	768	763	753	748	752	760	768	773	780	773	768	767
10	773	775	776	761	736	736	735	741	751	762	765	764	760	762	767
11	774	774	776	766	747	741	737	747	755	765	779	778	770	765	766
12	778	785	783	778	762	743	741	746	762	773	778	775	774	775	774
13	792	796	796	787	771	768	765	772	782	792	792	789	785	786	784
14	792	797	798	788	777	765	758	763	775	782	788	790	787	781	778
15	777	781	785	780	757	746	741	747	755	764	770	771	771	765	764
16	761	763	760	753	736	730	724	729	739	746	750	753	756	756	749
17	750	751	757	751	730	715	711	718	727	733	738	743	741	738	736
18	741	744	740	731	715	701	694	702	717	731	738	738	733	731	729
19	739	742	742	733	727	727	729	737	754	764	770	775	774	771	772
20	781	786	785	776	768	763	761	762	771	782	795	801	790	788	789
21	792	793	789	776	758	747	749	754	763	780	773	779	785	785	787
22	786	789	793	784	772	766	763	767	771	782	787	796	796	792	791
23	790	795	792	781	759	747	745	755	763	773	784	789	790	785	785
24	786	793	789	778	770	758	755	759	765	768	768	775	779	779	780
25	789	791	790	780	770	769	768	773	783	794	797	794	790	789	795
26	799	804	801	796	785	784	786	791	794	800	802	803	798	792	794
27†	797	803	797	787	773	767	767	777	788	795	801	798	799	794	792
28†	795	802	802	795	783	776	773	771	777	783	787	790	792	790	785
29	789	795	801	793	759	745	746	751	758	771	783	790	788	785	778
30	784	789	789	777	758	746	743	746	750	758	768	774	774	773	768
Mean .	775	778	779	771	757	750	747	751	760	769	774	776	774	772	772
Mean† .	779	784	785	779	768	763	757	756	765	773	779	779	779	778	777

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

MARCH. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
771	775	777	777	777	776	778	777	776	761	10 8	783	5 59	723	1
776	774	777	776	777	776	776	776	775	775	22 18	788	6 49	754	2
773	773	775	776	776	777	774	776	776	767	72 7	778	5 9	730	3
774	771	773	774	776	777	776	775	774	770	2 39	808	6 16	751	4
766	766	767	768	769	769	768	768	767	764	19 15	770	6 9	751	5†
755	754	755	757	759	759	758	757	757	756	1 46	766	5 56	737	6
751	751	752	753	754	755	756	757	757	751	10 4	761	6 26	734	7†
758	758	760	762	763	763	764	765	765	757	24 0	767	6 10	739	8†
768	768	767	769	770	770	771	771	771	767	10 14	774	5 15	749	9†
769	769	770	771	772	771	771	771	772	769	10 52	781	5 58	735	10†
783	782	782	783	784	786	786	783	782	779	20 30	789	5 50	763	11
781	781	777	778	777	775	774	774	773	774	12 28	787	5 20	750	12
772	773	772	775	774	774	776	771	772	768	1 24	780	5 51	741	13
759	760	761	762	763	764	760	759	757	757	1 52	777	6 16	725	14
767	769	771	771	770	769	768	768	768	761	17 12	773	6 27	729	15
771	773	773	773	773	775	775	771	771	767	11 4	778	6 33	733	16
776	776	777	779	778	777	777	775	775	771	10 59	784	6 2	741	17
776	776	775	776	780	777	774	775	774	773	1 38	785	6 42	749	18
776	776	777	777	776	776	775	774	775	775	3 28	789	6 50	757	19
772	772	772	774	775	776	775	774	773	769	0 7	781	6 31	741	20
777	780	781	783	781	780	779	779	777	780	9 50	793	6 20	766	21
774	776	773	770	771	769	768	769	769	775	9 16	794	5 46	764	22
762	765	766	767	769	766	763	762	761	765	2 28	779	6 47	750	23
747	747	749	748	749	747	746	744	742	749	1 27	762	6 58	737	24
734	735	733	735	734	733	731	731	728	731	0 43	743	6 32	712	25
729	731	734	734	735	734	733	731	731	**728**	3 8	737	6 44	**705**	26
788	791	796	798	797	799	796	795	794	766	20 18	800	4 6	717	27
798	799	801	804	804	803	801	801	799	**795**	10 15	**808**	5 33	771	28
798	801	801	802	802	802	800	799	800	794	11 9	808	6 8	767	29
785	786	787	789	788	788	787	786	786	783	2 0	797	6 15	761	30
768	770	771	772	771	770	769	767	766	769	2 47	785	6 29	752	31
769	770	771	772	772	772	771	770	770	767					Mean.
762	762	762	764	764	764	765	765	765	761					Mean.†

APRIL.

743	744	746	744	746	745	744	742	743	744	1 38	764	7 0	723	1
776	780	781	783	783	783	781	781	782	766	20 14	784	0 14	737	2
777	778	779	780	781	781	780	780	779	771	1 36	785	6 30	747	3†
767	769	773	775	776	775	774	773	772	766	1 54	777	6 38	739	4†
768	770	772	775	776	776	775	774	773	768	19 16	777	6 50	747	5†
769	766	765	772	772	772	773	775	770	766	2 14	778	6 6	739	6
766	769	769	767	772	769	770	768	771	762	23 19	775	4 35	739	7
774	777	776	776	776	778	778	777	777	771	11 26	782	4 58	748	8
769	774	773	774	773	775	775	777	775	769	10 52	784	6 6	746	9
769	771	773	775	775	773	773	773	773	763	1 46	779	6 8	733	10
769	771	773	775	773	776	776	774	771	767	10 26	782	5 52	735	11
777	781	785	787	787	789	785	785	785	775	19 50	791	5 32	738	12
785	787	789	789	788	787	787	786	787	785	1 45	798	6 30	763	13
778	781	780	781	781	782	779	777	775	780	0 54	799	6 4	757	14
765	765	766	765	766	765	763	763	763	765	1 38	787	5 58	739	15
750	753	755	754	754	753	752	750	748	749	1 18	765	5 44	722	16
738	741	742	743	743	743	743	740	739	738	1 54	758	1 44	709	17
731	734	732	736	737	737	734	732	732	**729**	1 10	745	2 12	**693**	18
775	777	780	785	782	784	783	783	781	763	18 44	791	4 50	725	19
796	789	797	796	798	796	796	795	795	786	10 46	806	6 10	756	20
780	782	785	788	788	789	787	786	786	778	1 10	794	4 58	744	21
791	795	797	798	797	798	796	795	795	787	18 53	801	6 8	762	22
788	790	792	793	796	794	795	792	789	782	19 10	799	5 50	742	23
783	789	787	788	787	786	786	785	784	778	1 18	795	5 14	752	24
792	795	797	798	799	797	799	799	797	790	18 34	800	4 11	766	25
795	797	798	799	799	798	799	799	799	**796**	1 10	805	4 30	782	26
796	795	797	798	799	797	797	797	797	792	1 6	804	5 5	765	27†
785	787	788	787	788	788	786	786	785	787	1 2	**806**	6 48	769	28†
781	782	785	787	788	787	785	781	785	779	1 50	801	5 12	741	29
769	771	778	782	778	778	776	775	773	769	1 38	792	5 10	742	30
773	775	777	778	779	778	778	777	776	771					Mean.
779	780	783	783	785	784	784	783	783	777					Mean.†

*See footnote on page 115.
†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

MAY. 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	771	778	777	766	758	737	728	725	734	747	752	758	760	760	759
2†	761	768	771	766	753	736	725	724	734	744	751	753	755	753	751
3†	749	750	751	747	743	738	739	748	762	769	776	781	783	781	778
4	784	791	792	785	770	761	761	763	768	779	779	780	781	781	782
5	798	795	796	793	786	780	778	780	783	789	794	793	790	792	790
6	795	797	792	780	781	768	772	773	782	787	788	790	792	796	787
7	791	796	787	781	766	751	751	754	758	767	777	783	785	785	781
8	784	785	785	779	773	768	760	763	769	779	777	777	779	779	778
9	778	790	786	784	775	766	758	758	766	773	779	780	785	785	778
10	783	786	787	784	775	767	762	759	763	767	773	781	782	782	778
11	784	787	784	778	776	769	763	768	768	772	777	781	783	778	775
12	783	787	789	784	774	767	762	761	763	772	783	786	788	780	776
13	785	786	789	783	776	770	767	771	781	789	785	781	779	779	783
14	784	787	789	782	768	762	761	763	766	773	776	777	778	776	775
15	774	777	773	761	748	748	748	753	753	754	771	774	772	772	769
16	765	768	772	767	753	739	732	733	741	752	756	762	761	757	754
17	758	754	752	745	737	743	757	767	781	787	789	784	787	788	788
18	792	796	798	795	796	790	782	781	783	789	788	799	800	795	789
19	796	799	797	789	780	783	792	793	792	794	796	797	797	795	791
20	788	792	793	785	781	761	762	769	776	781	779	775	778	781	783
21	780	783	787	783	780	779	774	770	775	783	785	786	786	783	782
22	786	787	785	781	773	767	765	764	766	771	775	781	783	781	777
23	788	795	793	782	772	765	758	761	765	771	783	789	787	782	777
24†	791	794	796	788	783	765	761	759	764	774	781	783	781	778	774
25	779	784	781	769	749	744	744	747	751	760	762	760	761	763	761
26	770	774	770	756	745	751	752	753	755	767	776	781	780	773	769
27†	786	792	791	780	767	762	763	767	777	785	791	793	791	786	779
28†	796	802	800	792	782	776	775	774	776	788	798	797	796	792	789
29	796	800	798	793	782	774	766	762	768	784	792	795	795	791	785
30	794	798	795	788	769	753	737	736	748	759	769	781	786	787	782
31	803	807	800	786	760	746	741	745	754	765	774	784	791	793	791
Mean .	783	787	786	779	769	761	758	759	765	773	779	781	782	781	778
Mean† .	779	783	784	776	767	756	753	755	763	773	780	782	781	778	774

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1	799	804	793	780	768	767	770	768	778	787	788	795	800	801	792
2	803	806	799	782	762	756	755	763	770	774	781	789	796	795	789
3	791	798	795	781	763	755	754	755	760	763	765	772	766	779	777
4	780	734	780	771	757	753	745	744	755	763	765	769	771	769	767
5	767	771	778	777	767	760	753	753	751	753	760	768	767	765	768
6	760	764	764	757	743	739	732	736	742	760	777	787	792	787	791
7	801	808	811	811	801	786	773	772	776	789	794	796	799	802	799
8	803	813	814	807	793	786	777	776	783	787	793	799	800	803	797
9	805	811	809	801	787	774	768	772	779	782	789	796	798	801	800
10	801	806	805	800	785	776	771	771	771	781	788	789	789	789	789
11†	787	793	792	782	773	769	765	766	773	774	784	784	781	778	776
12	775	783	789	786	770	764	752	744	748	754	761	759	759	761	759
13	762	766	766	756	735	728	721	722	728	733	744	755	754	753	749
14	758	761	766	761	756	753	748	747	754	755	777	789	795	794	791
15†	80	804	808	803	792	782	780	778	785	792	802	807	810	807	800
16	806	813	814	814	804	791	778	775	775	783	788	794	793	801	792
17	807	805	811	810	801	791	778	763	768	780	786	789	799	800	795
18	793	799	796	787	776	768	763	763	766	775	781	784	787	785	779
19	778	782	782	775	763	750	742	738	738	751	755	760	763	765	764
20	763	768	769	761	749	736	725	721	721	726	729	733	739	747	747
21	752	759	762	758	749	745	742	750	764	773	778	782	788	797	793
22	807	811	810	804	797	789	785	788	791	795	798	801	803	803	800
23†	809	814	812	805	793	788	781	777	778	788	791	795	800	800	797
24†	799	805	800	780	759	751	759	767	767	774	782	788	785	782	783
25†	792	796	795	789	778	771	759	758	761	770	782	791	788	781	775
26	787	791	787	784	773	762	757	760	764	765	771	781	785	781	775
27	785	787	777	769	760	763	761	771	783	792	799	798	797	790	787
28	809	811	805	792	774	755	749	762	775	787	794	799	801	794	787
29	797	801	795	783	768	759	759	769	777	784	787	781	781	782	784
30	788	793	791	781	765	744	733	735	738	753	769	778	782	780	771
Mean .	789	794	793	785	772	764	758	759	764	771	779	784	786	786	782
Mean† .	794	800	799	790	777	770	767	768	772	779	788	793	793	790	787

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

MAY. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
759	762	764	766	766	766	765	763	762	757	0 10	783	6 46	723	1
753	755	757	759	760	760	759	757	756	752	1 56	772	6 25	721	2†
779	777	779	782	783	785	785	785	785	768	23 30	786	4 42	735	3†
783	789	791	795	796	795	795	797	797	783	24 0	803	6 2	759	4
792	795	799	798	800	798	798	797	798	792	20 59	805	5 47	774	5
791	791	794	794	794	794	795	794	794	788	0 38	799	4 38	766	6
783	785	785	788	789	791	789	790	789	779	0 58	801	5 6	748	7
777	780	781	782	783	784	783	782	785	778	1 41	789	5 54	758	8
779	779	780	782	781	782	782	783	781	778	0 35	793	6 56	755	9
778	780	781	782	782	782	782	781	780	777	1 50	790	7 10	757	10
776	777	779	780	780	779	779	780	782	777	1 2	789	5 44	762	11
779	781	783	785	784	783	783	783	783	779	10 26	794	7 2	759	12
780	784	785	786	787	786	785	784	783	782	8 51	792	6 6	759	13
776	777	778	777	777	777	777	777	776	775	1 50	791	6 42	760	14
767	771	773	774	775	775	774	773	772	767	1 5	778	4 41	746	15
755	761	761	769	758	762	763	759	759	756	2 10	774	5 47	731	16
787	788	790	791	793	792	789	791	788	779	19 10	797	4 0	733	17
793	794	796	798	796	796	796	795	795	793	11 40	804	6 7	778	18
789	792	793	796	799	797	795	795	796	793	1 50	802	4 12	777	19
784	784	787	787	787	789	787	787	785	781	1 36	796	5 42	758	20
782	786	787	789	787	786	787	783	785	783	18 10	791	7 26	768	21
779	782	783	784	785	785	784	783	784	779	0 26	789	7 8	761	22
778	779	783	784	785	783	783	783	784	780	1 1	797	5 0	756	23
774	776	789	780	779	779	779	777	777	778	2 25	797	6 34	758	24†
762	767	768	766	767	767	768	767	767	763	0 51	786	5 30	742	25
770	774	778	779	778	778	778	779	779	770	1 19	783	4 18	742	26
783	785	788	778	789	788	787	787	788	783	11 14	796	5 2	760	27†
788	789	790	789	791	792	792	790	790	789	1 18	803	7 26	773	28†
787	787	790	789	791	790	790	789	791	787	0 39	801	7 38	760	29
783	782	790	791	793	794	793	795	795	779	22 37	801	6 8	732	30
789	791	797	801	800	797	797	799	793	783	1 22	815	6 19	739	31
779	781	783	784	784	784	784	783	783	778					Mean.
775	776	778	779	779	779	779	778	777	774					Mean.†

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793	795	799	801	801	802	799	796	797	791	1 12	809	4 48	765	1
791	793	791	795	793	797	794	792	791	785	1 6	809	5 32	750	2
776	778	779	779	780	780	780	780	780	775	1 26	803	6 36	748	3
767	771	771	771	770	769	770	770	769	766	0 56	787	6 58	739	4
760	761	762	763	762	762	761	760	761	762	1 50	779	7 52	749	5
792	794	798	798	799	799	799	800	800	776	22 43	802	6 7	730	6
801	803	806	808	808	807	807	807	807	799	2 54	814	7 14	769	7
799	801	804	806	806	804	805	804	803	799	1 26	817	6 42	772	8
800	802	802	802	803	802	800	800	801	795	1 51	814	5 41	765	9
787	789	791	792	792	791	791	789	789	788	1 0	809	6 31	769	10
777	777	778	778	778	777	775	776	773	777	1 42	795	6 26	763	11†
761	763	766	767	767	767	763	760	768	764	2 38	791	7 11	740	12
753	753	753	755	754	755	753	752	751	748	0 12	769	6 37	719	13
792	795	796	797	798	799	798	797	796	779	20 13	799	6 24	745	14
800	801	805	806	806	806	805	805	804	800	12 20	811	6 44	778	15†
795	801	805	805	807	807	806	805	804	798	2 47	816	8 22	769	16
793	794	796	797	796	795	795	793	792	793	1 58	815	7 7	784	17
777	780	779	779	781	779	778	777	779	779	1 36	801	7 0	760	18
760	761	760	762	762	763	763	761	760	760	1 51	785	8 4	736	19
748	747	748	750	750	748	749	747	747	744	1 45	773	6 33	719	20
795	798	799	800	802	802	803	803	804	780	23 28	806	5 47	741	21
802	804	805	807	807	807	807	807	807	801	1 34	813	6 14	784	22
797	799	800	800	800	800	800	800	801	797	1 4	815	6 34	775	23†
785	787	789	791	790	790	790	790	791	783	1 26	808	5 1	750	24†
777	777	779	780	781	781	781	781	781	779	1 16	799	6 22	757	25†
774	775	776	777	777	777	775	775	776	775	1 0	793	5 50	755	26
791	793	795	794	796	796	799	796	798	787	21 20	801	3 50	755	27
794	795	799	799	801	800	798	796	796	790	1 8	814	5 47	744	28
785	789	789	789	790	792	790	789	790	783	1 7	804	5 46	754	29
771	775	778	779	779	779	778	777	775	770	1 46	797	6 14	730	30
783	785	787	787	788	788	787	786	786	781					Mean.
788	789	792	792	793	793	793	792	792	787					Mean.†

*See footnote on page 115.

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JULY. 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	781	786	785	776	767	758	751	753	757	755	761	765	768	769	769
2	775	781	783	778	772	767	765	773	778	772	774	775	773	775	780
3	793	798	799	791	785	776	779	779	780	785	790	794	794	796	791
4	801	804	800	795	782	773	766	769	772	779	785	791	788	787	789
5	798	801	799	795	789	780	769	777	776	781	788	791	793	791	790
6	795	799	801	790	770	762	760	770	776	776	781	785	789	785	783
7	789	794	791	783	773	762	762	766	772	777	780	781	779	781	782
8†	790	795	790	780	766	756	754	755	758	764	770	777	779	777	777
9	785	789	791	781	770	755	743	740	755	770	779	785	781	781	776
10	788	786	785	775	770	773	773	772	770	769	776	790	792	787	784
11	797	803	799	784	753	733	744	759	770	780	782	788	789	788	790
12	803	808	805	796	786	788	783	779	789	795	801	801	801	800	797
13	799	806	800	790	778	766	762	773	784	788	789	790	787	783	784
14	791	796	795	786	773	762	755	758	768	779	784	785	787	784	780
15	795	787	783	777	767	753	746	757	767	773	773	771	767	769	771
16	773	775	771	763	754	748	741	740	749	762	767	769	770	764	758
17	765	769	771	763	754	747	743	743	754	757	759	758	759	757	754
18	755	759	756	750	749	756	767	781	789	792	792	791	791	796	799
19	803	806	807	805	804	794	783	790	804	816	816	807	797	797	801
20†	806	810	808	804	797	790	783	787	797	798	800	801	795	799	798
21†	803	807	805	799	794	786	783	784	790	795	797	795	791	792	793
22†	803	804	802	804	803	802	799	801	802	806	805	803	798	796	794
23†	794	797	781	762	754	757	764	768	771	778	783	780	776	773	778
24	781	787	779	764	753	749	747	746	748	754	767	773	775	769	762
25	773	773	764	757	752	740	729	739	743	758	762	758	753	752	758
26	763	766	756	742	732	745	749	774	786	795	801	804	801	796	795
27	808	815	809	795	783	775	773	776	781	797	812	816	810	803	803
28	814	819	821	813	804	798	791	797	801	803	804	811	815	813	810
29	811	819	816	797	767	762	765	763	781	799	803	804	805	803	802
30	799	804	801	791	781	776	767	770	778	784	785	789	792	803	788
31	795	795	795	786	781	780	780	778	776	780	785	785	784	781	781
Mean . .	791	795	792	783	773	767	764	768	775	781	785	787	787	785	784
Mean† . .	796	800	795	787	781	776	775	778	783	787	791	791	788	788	788

AUGUST.

1	786	793	790	779	774	766	758	761	766	768	770	774	778	779	775
2†	774	775	774	771	766	755	752	755	766	770	773	768	760	759	762
3†	766	769	766	759	757	759	761	761	768	776	778	781	782	781	782
4†	789	793	793	791	782	777	779	783	785	785	787	785	774	784	783
5	789	792	791	782	771	765	762	760	763	769	777	781	783	785	783
6	789	798	797	782	768	763	760	765	775	779	778	776	779	784	779
7	788	796	792	783	780	771	764	766	768	773	778	784	783	786	783
8	787	790	785	777	770	762	761	761	767	769	780	784	784	789	784
9	784	789	780	769	759	757	760	768	771	773	778	779	779	778	776
10	784	787	782	778	766	763	760	761	773	782	782	783	781	780	776
11	780	784	785	782	768	762	760	762	771	774	780	775	769	767	769
12	776	781	775	766	750	744	745	753	764	770	777	776	784	773	766
13	773	777	776	763	746	740	740	744	754	763	768	769	768	768	764
14	777	781	780	772	761	751	753	762	769	777	784	787	787	779	776
15	784	787	787	783	764	763	765	760	767	781	784	785	782	779	776
16	790	793	790	786	771	771	771	776	782	789	787	785	781	782	781
17†	794	800	800	793	783	774	769	773	777	779	786	793	794	790	784
18	794	798	802	796	780	776	780	779	781	787	789	790	791	789	784
19	787	793	791	783	773	765	764	765	767	770	772	785	784	781	775
20	781	784	780	773	768	762	756	757	764	766	770	772	771	768	768
21	779	786	783	767	753	748	740	743	751	764	769	773	779	778	778
22	792	799	795	781	764	767	768	768	776	787	794	798	794	787	787
23	801	803	798	786	764	757	757	766	769	775	784	789	789	788	791
24	800	804	794	774	751	741	740	752	770	785	790	791	790	786	788
25	799	805	805	793	767	752	752	762	776	784	791	795	794	789	789
26	796	802	802	787	766	748	743	749	763	781	761	795	794	784	783
27	793	796	793	784	776	765	763	766	775	790	794	792	789	787	782
28†	790	797	793	783	774	754	741	752	773	777	785	791	792	785	781
29	789	793	793	784	778	762	760	759	765	770	777	785	786	782	777
30	786	791	783	767	755	752	757	761	767	771	774	778	778	771	773
31	779	781	779	773	764	740	741	745	756	769	777	782	778	770	769
Mean . .	786	791	788	779	767	759	757	761	769	776	781	783	783	780	778
Mean† . .	784	789	787	781	773	765	761	765	775	778	782	784	780	780	778

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JULY. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
771	771	772	773	775	775	773	772	770	769	1 6	787	6 26	749	1
777	781	785	789	790	791	791	789	787	780	19 16	793	6 13	763	2
795	795	797	799	798	8 0	799	796	796	792	20 10	802	6 16	773	3
786	790	793	793	794	794	796	795	794	788	0 44	8 6	6 26	763	4
791	792	793	793	794	793	793	793	792	790	1 10	803	6 4	767	5
783	784	785	787	787	787	786	786	787	783	1 48	803	6 6	759	6
780	781	782	783	783	782	782	782	781	780	0 52	795	5 15	759	7
780	780	782	783	781	781	781	780	781	776	0 56	797	5 26	752	8†
773	776	781	784	787	790	784	781	778	776	1 48	793	6 50	739	9
785	789	790	790	791	789	788	788	787	783	11 29	795	4 1	768	10
791	793	793	796	796	797	794	795	795	784	1 22	809	5 2	723	11
796	797	799	801	801	800	799	798	797	797	1 2	811	6 30	776	12
792	791	789	793	793	793	782	791	790	787	1 6	808	6 5	759	13
781	782	783	784	785	783	783	782	782	780	0 59	801	6 4	753	14
772	776	773	776	777	777	777	776	777	772	0 42	789	5 44	745	15
761	767	765	769	770	769	767	767	765	762	1 2	776	6 48	737	16
753	755	756	756	758	760	759	760	759	757	2 2	77	7 2	740	17
799	801	803	804	807	807	807	807	807	787	1 16	80[illegible]	4 4	747	18
800	802	804	806	807	808	808	808	808	803	9 30	817	5 22	781	19
798	800	801	802	803	805	806	805	805	800	1 12	81[illegible]	6 30	783	20†
794	791	797	799	800	800	800	800	799	796	0 59	80[illegible]	5 40	782	21†
792	792	793	793	792	791	791	790	791	798	9 4	807	22 5	789	22†
779	778	780	780	780	781	781	781	780	776	0 52	79[illegible]	4 9	753	23†
763	765	766	766	765	765	769	768	770	764	1 [illegible]	789	6 50	744	24
757	759	763	763	764	762	763	763	763	757	0 57	777	5 55	725	25
798	801	805	807	807	808	807	807	808	787	23 20	809	3 43	726	26
807	809	812	813	813	812	812	813	812	803	10 40	818	5 41	771	27
811	812	813	814	815	816	815	815	813	810	1 44	822	5 53	790	28†
805	805	807	809	811	811	810	809	807	799	1 6	824	4 28	756	29†
789	793	795	798	798	799	798	797	797	791	1 35	806	6 6	765	30
783	786	788	790	791	791	791	788	789	785	1 46	797	8 3	774	31
785	787	789	790	791	791	790	790	789	784					Mean.
789	790	792	793	793	794	794	794	794	789					Mean.†

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775	776	777	778	779	779	779	777	777	775	1 13	797	6 18	756	1
759	763	766	767	769	769	769	768	767	766	1 28	777	6 34	751	2†
782	785	788	790	790	790	791	791	793	777	23 0	793	4 12	754	3†
784	787	789	791	791	792	792	792	791	787	1 22	795	5 38	776	4†
785	786	790	791	794	794	795	792	792	782	19 56	798	5 22	759	5
785	784	788	788	785	791	790	791	791	782	1 28	803	5 14	758	6
783	784	788	791	788	791	790	789	791	783	0 58	801	6 16	761	7
779	783	786	785	786	786	785	787	786	780	1 24	792	5 17	758	8
777	777	779	779	780	781	781	782	780	776	0 54	791	4 48	755	9
775	775	778	778	779	780	779	778	778	777	1 22	789	5 56	759	10
771	770	773	775	776	776	775	774	774	773	1 18	787	5 48	759	11
767	772	770	772	771	771	770	768	770	768	12 5	787	5 18	742	12
765	766	769	771	771	772	770	771	770	764	1 20	780	5 21	736	13
776	777	778	780	781	779	783	779	779	775	11 23	789	4 47	750	14
777	776	778	781	782	783	784	783	783	778	1 28	789	6 44	758	15
781	786	786	786	787	787	788	789	788	784	1 16	794	6 4	769	16
784	785	789	790	791	789	790	790	789	787	1 29	801	6 1	768	17†
783	784	787	789	788	789	787	785	789	787	1 52	803	4 42	775	18
776	779	781	779	779	780	780	780	779	778	1 8	795	5 8	762	19
768	770	771	772	773	773	774	772	770	770	0 46	787	6 34	754	20
780	782	785	792	792	795	793	790	791	775	20 18	799	5 52	739	21
793	792	794	797	799	797	798	798	797	789	1 25	803	3 53	763	22
792	793	794	795	795	795	796	797	795	786	0 28	805	5 36	754	23
790	791	792	791	792	793	793	795	795	783	0 38	805	5 40	737	24
788	791	792	793	795	793	792	793	792	787	1 6	808	5 46	751	25
784	786	788	788	789	787	789	787	788	782	1 22	806	5 40	742	26
785	787	788	787	788	788	788	785	785	784	1 10	798	5 30	760	27
781	781	783	783	784	783	783	782	781	779	1 22	799	6 13	739	28†
777	778	780	780	780	782	781	778	779	778	1 34	796	7 0	757	29
772	772	773	774	776	775	777	779	777	772	1 9	793	4 40	749	30
768	769	771	771	773	774	772	773	773	769	1 43	785	5 7	738	31
779	780	782	783	784	784	784	784	783	779					Mean.
777	780	782	783	784	784	784	783	783	779					Mean.†

*See footnote on page 115.

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

SEPTEMBER. 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	774	778	777	763	754	754	751	758	777	788	787	780	776	774	770
2	768	772	771	763	750	741	740	743	753	762	767	759	756	751	749
3	748	752	752	741	717	705	711	719	729	742	741	739	741	739	742
4	732	739	737	721	705	708	722	740	755	771	781	793	795	795	802
5	812	820	819	811	794	782	784	790	801	809	816	820	819	814	817
6	811	819	817	802	784	774	779	793	803	807	811	810	806	802	810
7	812	817	819	810	795	782	778	787	798	806	815	816	812	809	809
8	807	814	813	796	775	765	764	771	782	798	807	805	801	798	798
9	792	801	804	792	770	752	743	745	759	769	788	791	788	782	783
10	786	793	793	787	769	759	756	767	775	781	791	796	795	792	790
11	800	808	814	802	780	758	752	760	773	784	796	802	799	793	795
12	805	809	809	793	772	767	766	770	788	801	808	809	806	799	797
13	800	805	813	802	774	750	732	741	764	779	789	796	796	789	788
14†	793	800	806	803	787	769	759	759	768	779	785	787	787	784	783
15†	788	792	797	790	769	753	752	760	769	779	786	784	779	775	777
16†	782	787	792	785	764	756	751	759	772	783	787	784	776	772	773
17	781	787	792	784	763	753	747	752	762	773	782	780	775	771	772
18	777	779	786	775	761	757	759	764	771	779	792	793	781	779	780
19	794	798	793	777	760	755	757	760	771	783	787	786	782	782	787
20	795	802	800	783	766	757	749	755	770	786	791	791	786	784	786
21	794	800	795	779	761	756	752	758	770	780	788	785	784	786	790
22	799	805	798	782	770	772	772	773	782	795	797	794	789	789	792
23	799	803	803	791	772	771	766	768	779	784	792	789	786	783	787
24	793	795	799	783	757	750	754	766	778	791	795	793	786	781	786
25	791	799	802	793	773	765	755	758	773	789	794	790	781	780	783
26†	787	791	796	788	764	747	734	743	766	790	804	801	795	793	797
27†	808	813	815	809	799	785	770	775	786	803	813	811	804	804	805
28	808	812	819	815	795	780	771	776	787	794	801	803	802	798	798
29	803	805	807	798	783	774	763	768	785	792	793	785	789	797	788
30	791	794	805	798	781	773	772	767	769	772	772	774	777	783	784
Mean . .	791	796	798	787	769	759	755	761	774	785	792	791	788	786	787
Mean† . .	793	797	803	796	777	762	753	759	773	787	795	793	788	785	787

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1	773	775	781	774	754	739	733	740	752	765	769	767	763	765	769
2	770	773	775	762	739	729	726	725	735	747	759	762	758	753	756
3	759	765	771	766	751	745	740	739	749	755	761	758	748	752	755
4	751	759	763	753	737	727	727	740	759	776	786	795	799	798	800
5	813	814	827	814	808	796	785	784	798	817	827	837	825	820	823
6	825	830	834	829	813	802	802	801	813	824	824	823	819	820	821
7	824	829	833	830	825	810	802	801	813	823	827	825	822	824	727
8	820	824	831	827	815	796	789	788	794	805	810	812	811	807	809
9	808	809	811	809	788	768	765	772	787	803	809	811	803	799	799
10	801	804	809	803	786	762	755	762	776	789	793	790	782	782	785
11†	786	790	797	788	768	754	750	756	767	777	780	778	774	771	772
12	775	777	782	779	770	758	755	764	781	795	802	803	801	802	802
13†	808	810	815	811	801	794	789	788	797	804	809	809	807	806	806
14	800	802	807	806	800	786	783	782	789	801	805	798	796	797	800
15	797	799	799	791	779	773	774	781	786	789	792	795	795	794	795
16†	797	801	806	801	797	786	777	776	783	790	792	791	786	785	788
17	787	789	792	795	786	777	770	777	783	787	791	790	785	783	786
18	794	787	778	762	752	749	755	763	775	782	788	785	782	781	782
19	776	779	776	772	761	753	753	759	766	773	770	768	766	766	769
20	759	761	765	766	757	747	742	739	744	755	755	751	749	748	752
21	743	744	745	741	727	721	717	725	735	738	739	739	733	733	735
22	732	736	741	735	733	740	744	755	768	779	784	785	782	785	789
23†	800	802	804	801	791	784	786	787	794	800	805	804	799	800	802
24†	798	797	798	791	778	773	769	775	783	792	797	795	792	792	792
25	788	791	788	780	773	766	765	772	781	787	791	788	786	790	790
26	791	792	793	797	796	797	782	789	789	791	796	796	799	799	789
27	792	797	795	797	787	783	781	792	803	803	803	806	802	794	795
28	790	792	794	795	791	786	780	789	789	789	787	782	782	786	780
29	784	785	784	780	775	768	772	779	779	779	782	784	778	783	780
30	781	780	782	784	782	777	777	779	786	788	782	779	778	781	781
31	791	792	792	792	783	779	776	784	792	794	790	787	788	788	789
Mean .	787	790	793	788	777	769	765	770	779	787	790	790	787	787	788
Mean† .	793	796	801	795	784	776	772	775	783	792	796	795	791	791	793

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

SEPTEMBER. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.).									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
770	770	769	770	771	773	775	774	774	771	9 54	787	6 30	747	1
752	753	755	758	758	758	759	759	757	756	1 30	773	5 58	738	2
738	736	739	742	746	743	744	747	745	**737**	1 30	755	4 49	704	3
805	808	810	812	815	814	816	816	817	777	20 54	818	4 8	**700**	4
816	817	820	822	821	823	825	**825**	823	**813**	20 57	**828**	4 50	780	5
810	813	815	814	817	816	818	817	817	807	1 10	825	5 10	772	6
808	809	810	808	809	809	809	811	811	806	1 36	820	5 47	776	7
798	802	802	801	801	801	800	800	801	796	1 34	817	5 57	763	8
783	787	787	787	787	786	788	785	786	781	1 54	806	6 8	741	9
791	793	793	795	795	796	795	794	796	787	1 16	798	5 55	753	10
795	797	798	800	800	800	800	800	800	792	2 2	815	5 51	751	11
798	798	799	799	799	798	798	796	799	795	1 47	812	6 10	764	12
789	790	791	792	792	792	792	792	791	785	1 59	815	6 2	731	13
783	786	785	787	787	786	786	787	786	784	2 36	808	6 38	756	14†
779	781	780	780	780	781	782	782	782	778	1 59	798	5 22	749	15†
775	775	775	777	776	776	776	776	776	775	2 8	792	6 2	749	16†
776	774	775	776	776	776	776	775	775	773	1 50	793	6 4	**745**	17
786	793	799	793	796	797	797	795	797	783	10 44	805	5 18	756	18
788	789	788	789	790	790	790	789	788	782	1 10	801	5 6	753	19
790	791	792	793	793	793	792	792	792	785	1 38	806	5 54	746	20
789	795	794	798	798	799	797	797	797	785	1 6	802	6 14	751	21
794	796	796	797	796	796	795	795	794	790	1 10	807	4 26	768	22
790	791	793	793	794	793	791	791	791	787	1 46	805	6 6	763	23
789	792	793	793	792	791	791	790	789	784	1 57	802	4 50	748	24
784	786	785	787	787	787	785	784	783	783	1 50	804	6 14	753	25
798	800	802	803	802	804	804	804	802	789	10 10	805	6 20	730	26†
807	808	807	809	810	810	809	809	808	803	1 57	817	5 55	769	27†
800	802	803	805	803	805	801	803	803	799	2 9	820	6 31	766	28
791	794	796	796	795	795	795	791	792	790	1 54	809	6 22	760	29
786	787	786	786	787	786	785	785	784	782	2 10	808	6 36	757	30
789	791	791	792	792	793	792	792	792	785					Mean.
788	790	790	790	791	791	791	791	790	786					Mean.†

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772	771	771	768	772	771	771	770	771	765	2 3	783	5 56	728	1
769	761	762	762	761	761	761	759	762	755	1 30	778	7 12	724	2
757	754	755	758	759	753	758	756	755	755	1 42	773	6 49	736	3
804	807	808	811	810	811	812	811	813	783	23 11	814	5 6	723	4
827	829	827	826	827	826	826	827	826	818	16 38	832	6 34	779	5
823	824	825	826	827	827	827	826	825	821	2 5	**836**	6 52	772	6
826	827	826	827	827	827	825	824	825	**823**	1 42	833	6 52	798	7
813	815	816	817	815	813	814	813	814	811	2 26	832	6 34	786	8
801	803	803	802	802	802	801	799	801	798	10 40	813	5 30	763	9
786	788	788	789	789	789	789	788	787	786	1 50	811	5 6	752	10
774	776	777	777	777	777	776	777	777	775	2 11	798	5 55	749	11†
804	806	808	810	810	810	810	810	810	793	19 24	812	5 50	754	12
806	807	808	809	809	809	809	809	809	805	2 7	817	6 51	787	13†
801	803	805	807	809	809	808	805	804	800	19 35	812	6 50	780	14
796	798	799	799	799	799	799	799	799	793	1 50	801	5 40	772	15
789	789	790	790	790	789	789	789	789	790	2 6	807	6 34	773	16†
787	790	793	795	796	793	796	794	797	789	18 52	801	6 10	769	17
785	785	784	784	784	785	783	782	779	778	0 0	796	5 22	748	18
770	770	770	769	768	766	767	766	766	767	1 6	781	5 14	749	19
753	752	754	753	750	752	750	750	750	752	3 10	768	6 30	734	20
737	737	737	736	737	737	736	735	734	**735**	1 50	747	5 47	**715**	21
793	794	797	801	801	801	801	802	802	776	17 43	803	3 38	732	22
803	804	806	805	806	805	805	805	804	800	18 59	807	5 10	783	23†
794	794	795	797	796	797	796	795	794	791	1 52	799	6 2	767	24†
789	790	791	794	793	793	793	793	793	786	16 14	798	5 30	763	25
794	798	798	799	797	799	799	796	795	795	12 41	804	5 37	780	26
793	793	792	791	792	790	791	789	788	794	10 51	809	5 35	779	27
781	784	783	783	782	781	784	783	781	785	1 56	798	6 16	776	28
781	777	778	778	779	779	778	777	779	779	1 27	788	5 16	765	29
779	781	782	779	782	776	786	783	782	781	8 41	790	20 5	770	30
791	793	793	793	795	795	794	795	796	790	22 58	799	5 50	774	31
789	790	791	791	792	791	791	791	791	786					Mean.
794	795	797	798	798	798	798	798	799	792					Mean.†

* See footnote on page 115.

† Five international quiet days.

NOVEMBER. (Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.) 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	803	805	806	801	796	795	794	800	806	806	802	802	800	802	800
2	805	805	807	805	802	795	788	794	803	801	793	794	793	797	798
3	798	800	797	793	789	784	779	779	785	787	785	782	779	783	783
4	779	778	781	781	770	766	760	768	770	769	772	766	761	763	764
5	756	753	757	763	764	763	760	768	779	785	785	780	778	783	784
6	786	788	791	791	788	785	775	778	787	793	793	788	788	788	791
7	799	791	794	794	787	779	764	766	772	774	781	789	791	792	792
8	802	804	811	811	802	799	799	801	805	805	804	804	809	813	813
9	809	809	812	812	811	808	808	813	821	813	812	812	816	811	810
10	802	801	801	800	795	791	788	791	795	793	791	793	795	795	795
11	785	783	786	788	782	768	795	798	769	773	774	771	769	771	772
12†	763	765	767	766	760	757	752	752	751	749	752	756	759	759	759
13	761	761	763	765	770	767	767	780	793	795	798	798	798	800	801
14	802	802	799	808	813	813	807	809	806	804	807	808	813	812	812
15	815	807	802	805	808	817	824	825	829	824	823	822	815	817	817
16	813	812	814	814	813	811	805	809	810	807	801	801	805	806	806
17	797	796	796	801	803	794	787	795	806	801	793	788	786	789	790
18	789	785	789	795	796	789	787	788	789	784	779	772	774	777	777
19†	777	775	775	779	782	781	775	774	774	770	763	763	765	767	768
20†	768	766	767	767	763	760	763	766	768	769	763	758	758	760	760
21†	753	751	750	754	749	744	745	754	760	762	765	770	773	774	777
22†	784	782	781	790	798	804	806	807	808	805	800	796	795	795	794
23	792	791	789	787	786	783	784	792	792	790	787	789	791	790	790
24	782	781	784	790	798	796	802	798	798	786	775	774	774	776	779
25	773	772	773	773	780	771	765	766	772	775	772	765	776	771	768
26	768	769	774	779	784	780	776	779	787	790	783	781	783	781	783
27	779	781	782	781	789	792	791	791	789	786	785	783	782	783	786
28	777	779	777	776	770	765	764	767	771	772	770	773	772	773	774
29	769	770	768	770	772	775	776	782	794	800	801	801	802	802	804
30	810	812	814	814	814	810	812	817	825	819	813	813	816	815	815
Mean .	786	786	787	788	788	785	783	787	790	789	787	786	787	788	789
Mean† .	771	769	769	773	772	770	769	771	773	771	769	769	770	771	771

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1	810	810	812	815	815	810	808	806	809	812	806	803	807	807	806
2	803	802	799	800	806	806	804	812	815	811	803	801	799	799	799
3	793	791	791	790	791	791	787	785	786	792	795	798	793	793	791
4	792	787	781	789	796	808	821	826	826	819	806	792	787	784	786
5	778	777	774	777	780	775	775	775	775	776	776	775	772	773	773
6	769	767	767	767	762	759	758	763	768	767	769	762	757	759	760
7	750	751	751	752	753	751	741	739	748	748	748	747	749	750	750
8†	754	755	753	751	748	741	736	744	758	765	764	761	759	761	764
9	766	767	767	771	774	771	772	777	789	799	800	798	796	796	797
10	801	802	808	816	819	808	799	801	812	818	817	814	811	811	811
11	807	807	806	807	808	810	811	807	802	798	801	804	803	802	801
12	795	795	795	800	803	802	802	796	790	786	786	791	794	790	787
13	780	778	776	784	795	802	797	789	784	782	776	779	780	780	779
14	772	770	769	774	776	776	775	772	773	773	772	771	770	770	770
15	767	768	765	771	775	771	770	770	773	777	772	769	768	769	768
16†	765	765	761	765	764	763	765	768	770	769	767	764	761	760	761
17†	762	760	758	761	758	758	761	766	773	775	775	778	783	783	783
18†	782	781	778	781	784	784	781	781	781	783	783	784	785	785	786
19	784	784	779	781	783	786	790	791	796	797	796	791	791	791	790
20	789	788	784	781	782	788	791	794	797	797	797	793	789	788	787
21	783	784	784	787	794	800	762	757	763	766	763	769	769	770	773
22	772	773	774	777	778	775	775	784	790	790	788	784	778	782	785
23	782	783	784	790	793	791	789	790	794	794	793	789	782	781	782
24	772	774	774	777	776	771	767	767	776	778	778	775	771	767	767
25	757	759	761	759	758	757	761	769	787	799	800	796	791	791	795
26	799	799	800	804	807	799	783	788	802	805	803	802	799	799	799
27	792	793	793	795	798	795	780	784	795	797	787	781	783	787	787
28	791	791	790	794	802	801	800	801	809	808	803	798	794	796	797
29	796	796	795	800	799	792	792	793	795	795	791	792	794	794	793
30	799	799	799	799	800	798	799	801	810	817	813	811	807	808	807
31†	804	804	801	807	815	811	805	807	811	811	808	805	806	807	807
Mean .	783	783	782	785	787	785	783	784	789	790	788	786	785	785	785
Mean† .	775	775	772	775	775	773	770	774	779	781	780	779	779	779	780

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

NOVEMBER. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.).									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
801	805	805	804	802	803	805	805	805	802	8 28	809	5 37	793	1
799	795	797	799	799	800	799	799	798	798	2 20	807	5 46	787	2
785	784	783	783	783	782	780	779	778	785	0 30	802	6 50	776	3
765	766	766	766	765	763	762	761	761	767	2 18	782	6 0	755	4
786	785	788	789	789	788	790	790	788	778	21 44	791	1 22	751	5
792	794	794	794	794	793	793	792	792	790	17 2	796	6 0	773	6
794	795	798	800	801	801	802	804	805	790	23 23	806	6 34	761	7
815	815	817	818	818	817	816	813	813	809	19 37	819	6 8	798	8
812	811	813	812	811	811	808	807	806	811	8 11	818	23 19	804	9
796	796	796	796	795	795	791	792	791	794	0 0	803	6 17	786	10
773	771	770	771	772	771	770	770	770	775	2 46	790	6 6	758	11
760	759	760	760	761	760	760	760	760	**759**	1 56	768	9 16	748	12†
802	802	803	804	804	803	802	801	801	790	20 18	805	1 16	760	13
813	813	814	816	816	819	816	810	812	810	19 55	823	1 40	795	14
817	818	817	817	817	815	814	813	811	**816**	7 50	**831**	2 10	8[illegible]0	15
805	805	805	803	802	802	799	798	798	806	2 56	817	23 30	797	16
790	790	789	788	788	786	782	782	782	791	7 48	808	23 25	781	17
777	778	777	777	777	775	774	774	772	781	3 58	797	10 58	771	18
769	769	769	769	767	764	763	762	761	770	4 24	783	22 26	760	19†
760	761	761	760	760	757	757	756	755	761	8 36	770	23 27	754	20†
779	778	781	783	784	784	784	783	783	768	19 58	785	5 10	**743**	21†
795	796	797	798	797	797	796	796	796	797	7 56	809	1 35	778	22†
790	790	792	794	797	792	791	791	789	790	18 54	798	5 10	781	23
780	782	783	785	782	783	783	780	780	785	5 46	805	12 28	770	24
773	776	776	776	773	775	777	774	776	773	11 50	782	5 29	761	25
786	786	786	786	787	784	786	785	784	782	8 49	791	0 10	765	26
784	783	784	783	783	782	781	781	781	784	5 34	794	1 34	778	27
774	774	774	773	773	773	772	771	771	772	0 54	781	5 33	762	28
805	805	806	8 8	809	809	808	809	810	795	20 30	811	2 2	767	29
815	815	815	815	815	815	814	813	813	815	8 10	828	5 14	808	30
790	790	791	**791**	791	790	789	788	788	788					Mean.
772	772	773	**774**	773	772	771	770	770	771					Mean.†

DECEMBER.

803	805	805	805	804	803	802	802	801	807	3 32	819	22 35	801	1
797	797	797	795	794	792	792	792	792	800	7 54	816	20 38	791	2
791	789	792	791	787	791	797	791	792	791	14 56	803	1 10	780	3
791	791	791	791	790	787	786	783	782	795	6 26	**827**	1 42	778	4
772	771	772	772	772	771	770	767	767	773	4 50	782	22 56	765	5
759	759	759	759	760	757	756	755	753	761	9 55	771	23 28	752	6
750	750	753	755	755	755	754	754	755	**751**	23 26	7[illegible]6	6 42	**735**	7
764	765	767	767	767	767	767	767	767	759	17 38	7 9	5 58	735	8†
797	799	800	802	802	802	80[illegible]	802	803	799	18 15	804	0 0	765	9
811	810	811	811	811	8 0	809	808	807	**810**	3 50	820	6 11	797	10
801	801	800	799	799	798	797	797	797	802	5 2	801	21 26	790	11
787	786	785	786	785	785	780	781	778	790	4 10	806	23 27	773	12
780	780	778	777	778	777	774	772	773	781	5 14	805	22 39	770	13
769	769	768	768	766	767	765	766	765	770	4 50	778	21 8	763	14
769	768	768	767	766	765	763	762	761	769	9 0	779	22 32	760	15
761	760	759	760	759	758	758	757	757	762	8 30	771	22 46	756	16†
784	784	784	784	784	784	783	782	781	775	14 30	785	1 46	757	17†
787	787	788	789	789	789	789	789	789	785	21 58	791	1 47	777	18†
792	792	792	792	790	789	788	787	789	789	8 38	799	2 22	778	19
785	787	785	785	780	783	781	781	781	787	9 46	799	18 48	772	20
773	770	772	772	772	773	773	772	774	774	4 33	803	7 25	753	21
784	782	783	784	783	782	782	781	780	781	8 54	792	1 30	771	22
782	782	778	7 7	777	776	773	774	775	784	8 18	796	22 3	772	23
766	766	766	763	762	761	760	759	759	769	8 14	780	23 28	757	24
795	796	797	797	797	798	799	799	800	785	9 6	802	3 24	755	25
798	798	797	795	796	795	793	792	793	798	4 4	809	6 25	778	26
785	784	785	787	787	788	787	788	790	789	3 34	799	6 30	777	27
797	796	795	796	796	796	795	795	794	797	8 22	811	0 11	789	28
793	792	791	792	792	792	792	793	792	794	3 58	802	10 12	789	29
807	807	806	806	805	806	806	805	803	805	9 16	818	5 26	797	30
806	804	803	802	800	799	797	797	795	804	4 11	817	23 26	794	31†
785	785	785	785	784	784	783	782	782	785					Mean.
780	779	779	779	779	778	777	777	776	777					Mean.†

*See foot note on page 115.

†Five international quiet days.

At Colaba, a day is classed as (1) a quiet day, or a day of (2) small, (3) moderate, (4) great or (5) very great disturbance, the letters for distinguishing each class being C, S, M, G and VG respectively. For representing intermediate conditions of activity of the smaller period movements, sub-classifications Ca, Sa and Ma are used. Roughly speaking a storm having a range over 225 γ in the variation of the horizontal force during the first twenty-four hours after its commencement is classed as "Very Great". It is "Great" if the range is between 150 γ and 225 γ, "Moderate" if the range is between 65 γ and 150 γ and "Small" if the range is less than 65 γ. The range is however not the only criterion used in assigning the character of a storm. The oscillations in the magnetograms are duly taken into account in determining the class to which a particular storm should belong. During the year there were 3 days of "Very Great", 5 of "Great", 48 of "Moderate" and 163 of "Small" disturbances. The following table gives a list of principal disturbances recorded during the year. Of the smaller disturbances, only those which showed special features have been included in this table.

PRINCIPAL MAGNETIC DISTURBANCES, 1930.

Date.	Time of beginning. G. M. T.	Duration in hours.	Horizontal force during storm.				Range.	Relative magnitude.	Remarks.
			Maximum.		Minimum.				
			Time.	Magnitude.	Time.	Magnitude.			
	H. M.		D. H. M.	γ	D. H. M.	γ	γ		
January 3	8 8	112	3 8 28	37283	5 14 48	37123	160	Ma	Commencement sudden.
February 2	11 30	36	3 5 46	37275	3 13 12	37214	61	Sa	Commencement gradual.
„ 12	3 2	118	12 5 49	37314	13 12 50	37117	197	G	Commencement sudden.
„ 23	17 4	56	24 7 38	37290	25 12 20	37186	104	Sa	Do.
„ 28	3 30	71	28 6 0	37293	28 15 8	37183	110	M	Commencement gradual.
March 11	11 30	107	12 4 0	37268	12 12 28	37078	195	G	Do.
„ 18	17 47	23	18 18 39	37255	19 13 38	37187	68	Sa	Commencement sudden.
„ 21	16 41	30	22 5 30	37279	22 16 50	37199	80	Sa	Do.
„ 23	7 59	37	23 8 4	37291	24 14 58	37172	119	M	Do.
„ 25	2 30	112	27 6 42	37298	28 11 24	37200	98	Sa	Commencement gradual.
April 6	7 30	189	6 7 38	37303	10 11 20	37140	163	M	Do.
„ 19	4 30	139	19 5 14	37308	20 15 32	37162	146	Ma	Do.
„ 28	16 3	70	29 6 30	37323	29 15 3	37207	116	M	Commencement sudden.
May 3	22 34	46	4 4 26	37289	5 10 34	37119	170	Ma	Do.
„ 6	2 30	95	9 4 45	37263	6 12 10	37180	83	M	Commencement gradual.
„ 11	23 30	46	12 6 6	37271	12 13 8	37198	73	Sa	Do.
„ 16	11 30	154	21 5 36	37285	17 15 6	37181	104	M	Do.
			June.		June.				
„ 30	14 30	130	4 6 24	37274	1 1 58	37186	88	M	Do.
June 6	20 30	69	7 5 18	37288	7 13 52	37197	91	Sa	Do.
„ 12	0 45	42	12 7 12	37337	12 13 54	37206	131	Ma	Commencement sudden.
„ 16	4 12	32	16 5 22	37302	16 12 42	37021	281	VG	Do.
„ 27	0 30	72	27 5 32	37319	29 12 10	37220	99	Sa	Commencement gradual.
July 3	6 30	64	4 7 14	37298	4 15 16	37233	65	S	Do.
„ 9	14 55	103	9 21 48	37321	10 10 28	37197	124	Sa	Commencement sudden.
„ 24	20 30	51	24 22 23	37334	25 10 58	37205	129	Sa	Commencement gradual.
August 5	13 34	107	6 3 54	37304	7 11 16	37134	170	Ma	Commencement sudden.
„ 10	4 30	42	11 5 48	37287	11 10 13	37217	70	Sa	Commencement gradual.
„ 12	4 30	40	13 17 42	37274	12 12 56	37202	72	Sa	Do.
„ 14	17 30	26	14 20 26	37296	15 15 4	37203	93	Sa	Do.
„ 19	5 0	17	19 7 16	37281	19 11 34	37204	77	Sa	Commencement sudden.
„ 21	10 30	84	23 6 10	37300	23 15 26	37224	76	Sa	Commencement gradual.
September 1	2 30	44	1 3 18	37287	1 12 34	37180	107	Sa	Do.
„ 3	4 30	36	3 6 11	37267	3 13 50	37169	98	Sa	Do.
„ 5	6 30	39	6 6 58	37291	6 10 40	37162	129	M	Do.
„ 18	8 50	38	18 9 4	37321	18 13 50	37035	286	VG	Commencement sudden.
					Oct.				
„ 28	4 30	87	28 9 5	37327	1 12 14	37209	118	Ma	Commencement gradual.
October 3	4 30	41	4 19 34	37283	3 10 50	37182	101	M	Do.
„ 14	4 21	22	14 8 14	37373	14 22 2	37202	171	Ma	Commencement sudden.
„ 17	5 30	22	17 5 34	37309	17 14 58	37089	220	G	Do.
„ 20	5 30	18	20 7 54	37291	20 9 22	37203	88	M	Commencement gradual.
„ 25	15 4	107	26 6 14	37305	26 13 10	37107	198	G	Commencement sudden.
November 4	4 32	21	4 5 50	37339	4 11 22	37194	145	M	Do.
„ 13	19 29	35	14 2 30	37313	14 20 22	37135	178	Ma	Do.
„ 23	20 22	72	24 6 54	37292	25 13 2	37176	116	M	Do.
December 3	1 8	43	3 4 18	37368	3 18 46	37048	320	VG	Do.
„ 12	14 30	35	13 3 18	37320	13 12 30	37258	62	Sa	Commencement gradual.
„ 19	10 30	15	19 11 42	37321	19 15 14	37277	44	S	Do.
„ 20	7 30	41	20 7 30	37326	21 9 30	37206	120	M	Do.

Fourier analysis of the diurnal and annual variations of Horizontal force for the five International quiet days during 1930.

Diurnal variation : $\triangle H = c_1 \sin(\theta + \varphi_1) + c_2 \sin(2\theta + \varphi_2) + \ldots\ldots$, θ is counted at the rate of 15° per hour from midnight to midnight (G. M. T.).

Annual variation : $\triangle H = c_1 \sin(\theta + \varphi_1) + c_2 \sin(2\theta + \varphi_2) + \ldots\ldots$, θ is counted at the rate of 30° per average month.

Quantity.	Diurnal Variation.												Annual Variation.
	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
c_1	13·2	20·1	20·3	22·6	20·5	15·5	12·6	13·3	14·1	14·7	14·1	10·9	8·1
c_2	6·2	7·4	9·8	12·1	10·2	7·5	8·3	7·0	9·0	7·5	6·9	7·9	0·5
c_3	3·5	2·0	4·8	5·2	3·0	2·7	1·9	3·5	5·0	4·0	3·2	1·9	2·1
c_4	1·5	1·0	1·5	2·3	2·0	1·2	0·8	1·5	1·9	1·7	0.7	0·4	2·4
c_1/c_2	2·1	2·7	2·1	1·9	2·0	2·1	1·5	1·9	1.6	2·0	2·0	1·4	16·2
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
φ_1	358 11	354 31	338 47	353 10	347 33	353 36	356 43	332 45	351 47	355 34	3 6	356 44	57 34
φ_2	268 3	225 53	234 21	262 19	235 26	245 15	249 12	208 51	232 36	234 56	280 6	324 3	198 26
φ_3	181 58	144 10	139 19	178 33	179 2	153 3	141 15	89 30	133 32	144 19	202 2	225 38	70 8
φ_4	21 44	7 38	54 0	58 52	78 9	119 12	9 35	57 5	55 3	24 40	73 42	160 38	296 40

SEISMIC DISTURBANCES, 1930.

Colaba Observatory.

φ=18° 53′ 36″ N ; γ=72° 48′ 54″ E ; h=6 metres. Subsoil—Trap.

Apparatus.—(*i*) Milne-Shaw Seismograph (N.-S.) :

(*ii*) Milne-Shaw Seismograph (E.-W.) : from 5th November 1930.

(In the underground constant temperature room.)

Component.	V	To	ε	Damping ratio.
AN . .	250	12	2·6	20 : 1
AE . .	350	12	2·6	22 : 1

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) An.	Remarks.
1930.		H. M. S.			
	AN				
Jan. 1	Pe	4 34 0	..	..	Slight shock.
	S	4 41 2	..	..	
	L	4 50 14	..	..	
	M	5 2 5	20	5	
	F	6 24 0	..	..	
	AN				
„ 4	P	7 57 18	..	..	Very feeble local shock.
	F	7 57 30	..	..	
	AN				
„ 5	P	1 30 48	..	..	
	S	1 39 47	..	..	
	L	1 55 16	..	..	
	M	1 58 22	27	37	
	F	Lost in shifting time.			
	AN				
„ „	P	19 3 10	..	..	
	S	19 12 8	..	..	
	L	19 27 26	..	..	
	M	19 31 53	15	4	
	F	20 5 0	..	..	
	AN				
„ 6	Pe	23 33 59	..	..	Very feeble shock.
	S	23 35 23	..	..	
	L	23 35 54	..	..	
	F	23 40 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
Jan. 7	e	0 55 0	..	..	Tremors.
	f	1 17 0	..	..	
	AN				
„ „	P	17 32 14	..	..	Feeble shock.
	S	17 36 8	..	..	
	Le	17 39 45	..	..	
	F	18 3 0	..	..	
	AN				
„ 12	P	11 14 25	..	..	
	S	11 19 38	..	..	
	L	11 23 57	..	..	
	M	11 27 6	15	4	
	F	12 3 0	..	..	
	AN				
„ 14	Pe	22 25 23	..	..	Distant feeble shock.
	M	23 17 48	17	2	
	F	23 55 0	..	..	
	AN				
„ 16	e	12 40 0	..	..	Tremors.
	f	13 9 0	..	..	
	AN				
„ 17	Pe	11 19 45	..	..	Slight shock.
	S	11 27 26	..	..	
	L	11 38 46	..	..	
	M	11 46 20	13	2	
	F	12 19 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
Jan. 18	P	7 16 22	..	..	
	S	7 26 24	..	..	
	L	7 45 43	..	..	
	M	7 54 28	23	7	
	F	9 57 0	..	..	
	AN				
„ 20	Pe	7 24 29	..	..	Slight shock.
	S	7 34 42	..	..	
	F	8 37 0	..	..	
	AN				
„ 23	e	4 10 0	..	..	Tremors.
	f	4 18 0	..	..	
	AN				
„ 25	P	1 47 52	..	..	
	S	1 54 29	..	..	
	L	2 12 15	..	..	
	M	2 10 50	15	4	
	F	2 38 0	..	..	
	AN				
„ „	P	10 30 3	..	..	Feeble shock.
	M	10 38 48	10	4	
	F	11 25 0	..	..	
	AN				
„ 28	P	10 33 56	..	..	Very feeble local shock.
	F	10 34 6	..	..	
	AN				
Feb. 2	P	15 8 39	..	..	
	S	15 19 3	..	..	
	L	15 39 43	..	..	
	M	15 49 1	20	20	
	F	17 51 0	..	..	
	AN				
„ 7	e	13 5 0	..	..	Tremors.
	f	13 17 0	..	..	
	AN				
„ „	P	16 41 2	..	..	
	S	16 46 22	..	..	
	L	16 51 8	..	..	
	M	16 51 54	15	4	
	F	18 9 0	..	..	
	AN				
„ 11	P	4 9 37	..	..	Very feeble local shock.
	F	4 10 27	..	..	
1930—*contd.*		H. M. S.			
	AN				
Feb. 12	P	6 43 12	..	..	Feeble distant shock.
	S	6 50 35	..	..	
	L	7 1 5	..	..	
	M	7 30 52	18	6	
	F	9 1 0	..	..	
	AN				
„ 14	P	8 14 39	..	..	Very feeble shock.
	F	8 17 0	..	..	
	AN				
„ „	P	18 46 25	..	..	
	S	18 53 5	..	..	
	L	19 1 19	..	..	
	M	19 2 4	11	4	
	F	19 45 0	..	..	
	AN				
„ „	Pe	21 0 11	..	..	Distant feeble shock.
	M	22 2 15	17	4	
	F	23 15 0	..	..	
	AN				
„ 15	P	19 11 51	..	..	
	S	19 15 58	..	..	
	L	19 18 48	..	..	
	M	19 24 0	14	3	
	F	20 4 0	..	..	
	AN				
„ 18	P	2 11 49	..	..	
	S	2 21 31	..	..	
	L	Lost in shifting time.			
	M	3 31 15	15	3	
	F	4 16 0	..	..	
	AN				
„ 23	P	18 27 51	..	..	
	S	18 34 51	..	..	
	L	18 44 24	..	..	
	M	18 51 29	17	3	
	F	19 38 0	..	..	
	AN				
„ 23	Pe	23 50 52	..	..	
	Se	23 53 3	..	..	
	L	23 53 52	..	..	
	M	23 57 3	12	3	
„ 24	F	0 50 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
Feb. 24	P	20 59 52	..	..	
	S	21 6 54	..	..	
	L	21 15 52	..	..	
	M	21 17 24	13	3	
	F	22 12 0	..	..	
	AN				
„ 27	P	2 20 59	..	..	
	S	2 25 25	..	..	
	L	2 28 23	..	..	
	M	Lost in shifting time.			
	F	3 12 0	..	..	
	AN				
„ 28	P	22 58 40	..	..	
	S	23 2 15	..	..	
	L	23 4 22	..	..	
	M	23 5 20	9	3	
	F	23 44 0	..	..	
	AN				
Mar. 5	P	1 14 55	..	..	Very feeble local shock.
	F	1 15 57	..	..	
	AN				
„ 6	P	15 49 2	..	..	
	S	16 1 58	..	..	
	L	16 34 7	..	..	
	M	16 43 2	20	7	
	F	18 11 0	..	..	
	AN				
„ 7	e	11 18 0	..	..	Tremors.
	f	11 35 0	..	..	
	AN				
„ 9	P	8 57 29	..	..	
	S	9 1 53	..	..	
	L	9 5 7	..	..	
	M	9 7 33	9	2	
	F	11 14 0	..	..	
	AN				
„ 10	P	16 37 16	..	..	
	S	16 45 11	..	..	
	L	16 57 6	..	..	
	M	16 59 16	11	2	
	F	17 44 0	..	..	
	AN				
„ 12	Pe	15 34 43	..	..	
	Se	15 38 49	..	..	
	L	15 41 31	..	..	
	M	15 42 12	8	1	
	F	16 48 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
Mar. 12	Pe	23 14 0	..	..	Very feeble shock.
	F	23 41 0	..	..	
	AN				
„ 13	e	1 3 0	..	..	Tremors.
	f	1 42 0	..	..	
	AN				
„ „	e	14 15 0	..	..	Tremors.
	f	14 54 0	..	..	
	AN				
„ 14	e	18 57 0	..	..	Tremors.
	f	20 42 0	..	..	
	AN				
„ 15	P	7 2 2	..	..	
	S	7 9 9	..	..	
	L	7 18 44	..	..	
	M	7 22 6	15	4	
	F	10 32 0	..	..	
	AN				
„ „	e	22 39 0	..	..	Tremors.
	f	23 13 0	..	..	
	AN				
„ 16	e	5 15 0	..	..	Tremors.
	f	6 2 0	..	..	
	AN				
„ „	e	16 44 0	..	..	Tremors.
	f	16 59 0	..	..	
	AN				
„ 18	e	5 3 0	..	..	Tremors.
	f	5 14 0	..	..	
	AN				
„ „	e	6 8 0	..	..	Tremors.
	f	6 40 0	..	..	
	AN				
„ 22	e	9 9 0	..	..	Tremors.
	f	9 42 0	..	..	
	AN				
„ „	P	17 36 43	..	..	
	S	17 37 5	..	..	
	L	17 37 11	..	..	
	F	17 54 0	..	..	
	AN				
„ 23	P	19 34 1	..	..	
	S	19 37 26	..	..	
	L	19 39 5	..	..	
	M	12 39 50	11	2	
	F	19 53 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
Mar. 26	P	7 22 2	..	..	
	S	7 30 9	..	..	
	L	7 42 30	..	..	
	M	7 46 54	20	63	
	F	10 50 0	..	..	
	AN				
„ „	Pe	11 20 19	..	..	
	S	11 25 12	..	..	
	L	11 28 59	..	..	
	M	11 32 26	11	4	
	F	Mixed up with the following shock.			
	AN				
„ „	P	11 42 9	..	..	
	S	11 50 12	..	..	
	L	12 2 53	..	..	
	M	12 16 24	17	4	
	F	13 13 0	..	..	
	AN				
„ „	P	20 25 43	..	..	Very feeble shock.
	F	20 59 0	..	..	
	AN				
„ 30	e	8 45 24	..	..	Distant feeble shock.
	M	9 37 25	16	3	
	F	12 6 0	..	..	
	AN				
„ „	P	15 29 24	..	..	
	S	15 37 28	..	..	
	L	15 50 17	..	..	
	M	15 56 57	21	11	
	F	17 16 0	..	..	
	AN				
„ 31	P	12 42 19	..	..	
	S	12 49 23	..	..	
	L	12 59 0	..	..	
	M	13 16 20	16	3	
	F	14 42 0	..	..	
	AN				
April 2	e	4 23 0	..	..	Tremors.
	f	4 52 0	..	..	
	AN				
„ 2	e	14 43 0	..	..	Tremors.
	f	15 5 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
April 2	Pe	20 5 43	..	..	Feeble shock.
	S	20 11 43	..	..	
	L	20 18 3	..	..	
	F	21 11 0	..	..	
	AN				
„ 3	e	6 44 0	..	..	Tremors.
	f	7 5 0	..	..	
	AN				
„ 4	e	9 40 0	..	..	Tremors.
	f	10 3 0	..	..	
	AN				
„ 5	e	12 4 0	..	..	Tremors.
	f	12 27 0	..	..	
	AN				
„ 6	P	13 9 27	..	..	
	S	13 10 25	..	..	
	L	13 10 43	..	..	
	M	13 11 2	10	2	
	F	13 25 0	..	..	
	AN				
„ 10	P	14 28 43	..	..	
	S	14 32 57	..	..	
	L	14 35 43	..	..	
	M	14 38 16	9	10	
	F	15 44 0	..	..	
	AN				
„ 15	P	10 0 54	..	..	Feeble shock.
	S	10 4 42	..	..	
	L	10 7 1	..	..	
	F	10 22 0	..	..	
	AN				
„ 15	P	10 42 22	..	..	
	S	10 50 42	..	..	
	L	11 4 7	..	..	
	M	11 11 9	20	3	
	F	11 53 0	..	..	
	AN				
„ 17	P	20 15 12	..	..	
	S	20 22 7	..	..	
	L	20 31 8	..	..	
	M	20 38 5	20	4	
	F	21 17 0	..	..	
	AN				
„ 20	e	16 41 0	..	..	Tremors.
	f	17 14 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
April 21	e	10 30 14	..	..	Distant feeble shock.
	M	11 6 6	19	4	
	F	11 29 0	..	..	
	AN				
„ 21	P	12 9 48	..	..	
	S	12 19 25	..	..	
	L	12 37 7	..	..	
	M	12 49 0	22	14	
	F	14 59 0	..	..	
	AN				
„ 23	P	22 0 4	..	..	
	S	22 9 6	..	..	
	L	22 24 24	..	..	
	M	22 36 15	19	17	
	F	23 57 0	..	..	
	AN				
„ 24	e	0 27 4	..	..	Feeble distant shock.
	M	1 11 14	18	4	
	F	1 37 0	..	..	
	AN				
„ 25	P	3 48 53	..	..	Feeble shock.
	S	3 52 23	..	..	
	L	3 54 19	..	..	
	F	4 8 0	..	..	
	AN				
„ „	e	12 15 0	..	..	Tremors.
	f	12 41 0	..	..	
	AN				
„ „	e	15 40 0	..	..	Tremors.
	f	16 12 0	..	..	
	AN				
„ 26	P	16 30 52	..	..	
	S	16 41 23	..	..	
	L	17 2 34	..	..	
	M	17 11 21	21	38	
	F	Mixed up with the following Shock.			
	AN				
„ „	P	19 12 54	..	..	
	S	19 13 24	..	..	
	L	19 13 34	..	..	
	F	19 21 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
April 27	P	10 4 24	..	..	
	S	10 10 34	..	..	
	L	10 17 23	..	..	
	M	10 21 19	18	3	
	F	10 54 0	..	..	
	AN				
„ „	P	14 35 55	..	..	
	S	14 43 25	..	..	
	L	14 54 8	..	..	
	M	14 55 21	20	11	
	F	16 14 0	..	..	
	AN				
„ „	Pe	21 43 43	..	..	Feeble shock.
	S	21 49 55	..	..	
	L	21 56 43	..	..	
	F	22 27 0	..	..	
	AN				
„ 28	e	13 29 0	..	..	Tremors.
	f	13 55 0	..	..	
	AN				
„ „	P	18 40 3	..	..	
	S	18 44 32	..	..	
	L	18 47 48	..	..	
	M	18 48 16	9	48	
	F	20 23 0	..	..	
	AN				
„ 30	Pe	16 25 36	..	..	Feeble shock.
	S	16 31 13	..	..	
	L	16 36 20	..	..	
	F	17 32 0	..	..	
	AN				
May 1	P	1 7 42	..	..	
	S	1 16 32	..	..	
	L	1 31 20	..	..	
	M	1 38 4	20	6	
	F	2 12 0	..	..	
	AN				
„ 2	e	1 58 0	..	..	Tremors.
	f	3 11 0	..	..	
	AN				
„ „	e	6 11 18	..	..	Distant feeble shock.
	M	7 12 29	14	2	
	F	8 15 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
May 4	e	18 17 0	..	..	Tremors.
	f	18 33 0	..	..	
	AN				
,, 5	P	13 50 54	..	..	
	S	13 54 48	..	..	
	L	13 57 15	..	..	
	M	Trace lost owing to quick movements			
	F	18 31 0	..	..	
	AN				
,, 6	e	7 10 0	..	..	Tremors.
	f	7 39 0	..	..	
	AN				
,, ,,	P	22 40 44	..	..	Feeble shock.
	S	22 46 18	..	..	
	L	22 51 16	..	..	
	M	22 52 32	20	374	
,, 7	F	2 22 0	..	..	
	AN				
,, 8	Pe	12 55 13	..	..	
	S	13 3 33	..	..	
	L	13 17 28	..	..	
	M	13 26 26	15	3	
	F	13 51 0	..	..	
	AN				
,, ,,	e	13 55 26	..	..	
	M	14 45 18	20	5	
	F	Mixed up with the following shock.	..	..	
	AN				
,, 8	P	15 41 45	..	..	o
	S	15 46 57	..	..	
	L	15 51 17	..	..	
	M	15 57 49	12	12	
	F	17 29 0	..	..	
	AN				
,, 9	e	7 8 24	..	..	Distant feeble shock.
	M	7 35 22	15	2	
	F	7 56 0	..	..	
	AN				
,, 11	P	11 35 35	..	..	
	S	11 37 53	..	..	
	L	11 38 59	..	..	
	M	11 39 9	10	6	
	F	12 20 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
May 11	P	22 40 4	..	..	
	S	22 43 50	..	..	
	L	22 45 59	..	..	
	M	22 53 2	10	5	
,, 12	F	0 4 0	..	..	
	AN				
,, ,,	P	0 25 12	..	..	
	S	0 29 0	..	..	
	L	0 31 8	..	..	
	M	0 38 32	8	3	
	F	1 22 0	..	..	
	AN				
,, 13	e	18 56 0	..	..	Tremors.
	f	19 19 0	..	..	
	AN				
,, 14	e	8 23 0	..	..	Tremors.
	f	8 53 0	..	..	
	AN				
,, ,,	P	19 55 21	..	..	
	S	20 4 9	..	..	
	L	20 18 43	..	..	
	M	20 20 8	25	6	
	F	20 59 0	..	..	
	AN				
,, 16	e	4 23 0	..	..	Tremors.
	f	4 57 0	..	..	
	AN				
,, ,,	e	20 36 0	..	..	Tremors.
	f	21 9 0	..	..	
	AN				
,, 17	Pe	17 14 33	..	..	Very feeble shock.
	M	17 21 27	10	3	
	F	17 44 0	..	..	
	AN				
,, 18	P	0 14 8	..	..	
	S	0 23 54	..	..	
	L	0 42 49	..	..	
	F	1 22 0	..	..	
	AN				
,, 19	e	4 2 0	..	..	Tremors.
	f	5 19 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
May 19	P	15 13 10	..	..	
	S	15 18 43	..	..	
	L	15 23 23	..	..	
	M	15 29 33	7	4	
	F	16 25 0	..	..	
	AN				
,, 20	P	11 27 37	..	..	
	S	11 38 3	..	..	
	L	11 58 58	..	..	
	M	12 8 26	20	17	
	F	13 57 0	..	..	
	AN				
,, 21	e	20 53 0	..	..	Tremors.
	f	21 13 0	..	..	
	AN				
,, 23	e	9 59 40	..	..	
	M	10 10 5	15	2	Distant feeble shock.
	F	11 7 0	..	..	
	AN				
,, ,,	P	16 48 8	..	..	
	S	16 56 9	..	..	
	L	17 8 54	..	..	
	M	17 18 29	12	2	
	F	17 58 0	..	..	
	AN				
,, 26	e	15 53 0	..	..	Tremors.
	f	16 23 0	..	..	
	AN				
,, 27	e	16 38 0	..	..	Tremors.
	f	16 50 0	..	..	
	AN				
,, 29	e	17 20 24	..	..	Feeble shock.
	M	17 35 50	15	4	
	F	18 28 0	..	..	
	AN				
,, 31	P	18 8 32	..	..	
	S	18 16 49	..	..	
	L	18 30 3	..	..	
	M	18 36 52	20	4	
	F	19 35 0	..	..	
	AN				
June 4	P	7 34 23	..	..	
	S	7 39 28	..	..	
	L	7 43 28	..	..	
	M	7 50 24	18	3	
	F	9 14 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
June 4	P	10 0 3	..	..	
	S	10 7 38	..	..	
	L	10 18 43	..	..	
	M	10 23 13	11	3	
,, 5	F	11 27 0	..	..	
	AN				
	P	12 1 36	..	..	
	S	12 8 59	..	..	
	L	12 19 7	..	..	
	M	12 20 28	15	3	
	F	13 53 0	..	..	
	AN				
,, ,,	P	16 36 42	..	..	
	S	16 40 22	..	..	
	L	16 42 28	..	..	
	M	16 43 58	10	3	
,, ,,	F	17 17 0	..	..	
	AN				
,, 11	P	1 1 52	..	..	
	S	1 11 57	..	..	
	L	1 31 27	..	..	
	M	1 37 17	28	27	
	F	3 43 0	..	..	
	AN				
,, 13	e	1 17 38	..	..	Distant feeble shock.
	M	1 51 19	15	3	
	F	2 38 0	..	..	
	AN				
,, 15	e	22 18 0	..	..	Tremors.
	f	23 16 0	..	..	
	AN				
,, 17	Pe	20 26 31	..	..	
	S	20 28 6	..	..	
	L	20 28 43	..	..	
	M	20 29 38	10	2	
	F	20 35 0	..	..	
	AN				
,, 19	P	13 16 43	..	..	
	S	13 24 58	..	..	
	L	13 38 18	..	..	
	M	13 51 31	18	14	
	F	15 6 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
June 25	P	0 50 58	..	..	
	S	0 52 57	..	..	
	L	0 53 40	..	..	
	M	0 54 32	9	2	
	F	1 9 0	..	..	
	AN				
,, ,,	e	11 22 36	..	..	
	M	11 46 59	20	5	
	F	12 36 0	..	..	
	AN				
,, 25	e	21 42 0	..	..	Tremors.
	f	22 38 0	..	..	
	AN				
,, ,,	P	22 38 31	..	..	
	S	22 43 57	..	..	
	L	22 48 35	..	..	
	M	22 53 30	19	8	
	F	23 33 0	..	..	
	AN				
,, 29	Pe	9 36 30	..	..	
	S	9 42 53	..	..	
	L	9 50 19	..	..	
	M	9 50 52	6	3	
	F	10 40 0	..	..	
	AN				
July 1	e	4 9 0	..	..	Tremors.
	f	4 16 0	..	..	*
	AN				
,, 2	P	21 7 56	..	..	
	S	21 11 11	..	..	
	L	21 12 42	..	..	c
	M	21 14 42	..	..	
	F	Mixed up with the following shock.			
	AN				
,, 3	Pe	0 23 7	..	..	From Colaba Seismograph No. 2 (An.)
	S	0 26 20	..	..	
	L	Trace lost owing to quick movements.			
	Fe	1 6 0	..	..	
	AN				
,, ,,	Pe	11 27 53	..	..	
	Se	11 31 6	..	..	
	L	11 32 43	..	..	
	M	11 33 13	7	3	
	F	11 34 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
July 3	Pe	11 55 12	..	..	
	Se	11 58 23	..	..	
	L	11 59 58	..	..	
	M	12 0 20	6	3	
	F	12 3 0	..	..	
	AN				
,, ,,	Pe	21 51 10	..	..	Very feeble shock.
	Se	21 54 23	..	..	
	L	21 56 4	..	..	
	F	22 0 0	..	..	
	AN				
,, ,,	s	22 50 0	..	..	Do.
	Fe	22 54 0	..	..	
	AN				
,, 4	Pe	18 58 44	..	..	
	Se	19 2 0	..	..	
	L	19 3 32	..	..	
	M	19 4 1	7	4	
	F	19 7 0	..	..	
	AN				
,, ,,	Pe	21 38 14	..	..	
	Se	21 41 25	..	..	
	L	21 43 4	..	..	
	M	21 43 14	7	4	
	Fe	21 48 0	..	..	
	AN				
,, 5	Pe	1 33 13	..	..	
	Se	1 36 24	..	..	
	L	1 38 3	..	..	
	M	1 38 24	6	4	
	Fe	1 45 0	..	..	
	AN				
,, 5	Pe	1 48 55	..	..	
	Se	1 52 9	..	..	
	L	1 53 44	..	..	
	M	1 54 14	7·5	3	
	F	2 0 0	..	..	
	AN				
,, ,,	Pe	2 41 6	..	..	
	Se	2 44 19	..	..	
	L	2 45 51	..	..	
	M	2 46 34	7·5	9	
	Fe	2 56 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
July 5	Pe	8 58 43	..	..	
	Se	9 1 54	..	..	
	L	9 3 33	..	..	
	M	9 3 56	5	5	
	Fe	9 8 0	..	..	
	AN				
,, ,,	Pe	18 24 5	..	..	
	Se	18 27 19	..	..	
	L	18 28 48	..	..	
	Fe	18 32 0	..	..	
	AN				
,, 7	P	21 58 30	..	..	Feeble shock.
	S	22 1 40	..	..	
	L	22 3 15	..	..	
	F	22 10 0	..	..	
	AN				
,, ,,	P	23 6 43	..	..	
	S	23 9 56	..	..	
	L	23 11 32	..	..	
	M	23 12 9	6	3	
	Fe	23 20 0	..	..	
	AN				
,, 8	P	4 39 34	..	..	
	S	4 41 4	..	..	
	L	4 41 34	..	..	
	M	4 41 42	7	14	
	F	4 54 0	..	..	
	AN				
,, 8	P	9 50 10	..	..	
	S	9 51 40	..	..	
	L	9 52 12	..	..	
	M	9 52 30	8	26	
	F	10 12 0	..	..	
	AN				
,, 9	e	15 27 0	..	..	Tremors.
	f	15 33 0	..	..	
	AN				
,, 10	Pe	21 50 28	..	..	
	Se	21 53 38	..	..	
	L	21 55 18	..	..	
	M	21 55 36	7	2	
	F	22 4 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
July 11	P	7 11 3	..	..	
	S	7 14 26	..	..	
	L	7 16 1	..	..	
	M	7 17 40	6	4	
	F	7 42 0	..	..	
	AN				
,, ,,	Pe	17 35 22	..	..	Feeble shock.
	Se	17 38 32	..	..	
	L	17 40 8	..	..	
	M	17 41 4	7	2	
	Fe	17 45 0	..	..	
	AN				
,, 12	P	6 15 44	..	..	Very feeble local shock.
	F	6 16 14	..	..	
	AN				
,, ,,	P	10 38 9	..	..	Do.
	F	10 38 36	..	..	
	AN				
,, ,,	e	11 29 0	..	..	Tremors.
	f	11 42 0	..	..	
	AN				
,, ,,	Pe	13 26 3	..	..	Feeble shock.
	Se	13 29 9	..	..	
	L	13 30 49	..	..	
	F	13 34 0	..	..	
	AN				
,, ,,	e	15 25 0	..	..	Tremors.
	f	15 32 0	..	..	
	AN				
,, ,,	Pe	23 43 33	..	..	Feeble shock.
	Se	23 46 46	..	..	
	L	23 48 22	..	..	
	M	23 49 4	9	2	
	F	23 53 0	..	..	
	AN				
,, 13	e	1 34 0	..	..	Tremors.
	f	2 8 0	..	..	
	AN				
,, ,,	e	2 14 0	..	..	Do.
	f	3 7 0	..	..	
	AN				
,, ,,	P	14 7 14	..	..	
	S	14 8 47	..	..	
	L	14 9 17	..	..	
	M	14 9 45	4	10	
	F	14 35 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
July 13	P	19 33 21	..	..	
	S	19 38 24	..	..	
	L	19 42 53	..	..	
	M	19 44 49	9	36	
	Fe	21 26 0	..	..	
	AN				
,, ,,	P	23 52 1	..	..	
	S	23 55 13	..	..	
	L	23 56 47	..	..	
	M	23 57 31	5	1	
,, 14	F	0 7 0	..	..	
	AN				
,, 15	e	11 17 0	..	..	Tremors.
	f	11 41 0	..	..	
	AN				
,, ,,	e	12 1 36	..	..	Very feeble shock.
	f	12 4 0	..	..	
	AN				
,, 17	e	4 45 42	..	..	Do.
	M	4 46 35	7	3	
	Fe	4 48 0	..	..	
	AN				
,, ,,	P	14 40 1	..	..	
	S	14 42 59	..	..	
	L	14 44 16	..	..	
	M	14 46 33	6·5	4	
	Fe	15 29 0	..	..	
	AN				
,, 20	P	13 37 1	..	..	
	S	13 38 3	..	..	
	L	13 38 20	..	..	
	F	13 52 0	..	..	
	AN				
,, ,,	P	19 22 35	..	..	Very feeble shock.
	F	19 25 0	..	..	
	AN				
,, 22	e	1 40 0	..	..	Tremors.
	f	1 58 0	..	..	
	AN				
,, ,,	P	19 36 35	..	..	
	S	19 44 41	..	..	
	L	19 57 31	..	..	
	M	20 1 29	13	7	
	Fe	21 20 0	..	..	

Date.	Phase.	Times G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
July 23	P	0 17 30	..	..	
	S	0 25 34	..	..	
	L	0 38 15	..	..	
	M	0 45 14	20	10	
	Fe	1 45 0	..	..	
	AN				
,, ,,	e	19 8 43	..	..	Very feeble shock.
	M	19 13 38	9	3	
	F	19 22 0	..	..	
	AN				
,, 24	e	12 30 0	..	..	Tremors.
	f	12 36 0	..	..	
	AN				
,, 27	e	4 39 0	..	..	Do.
	f	5 7 0	..	..	
	AN				
,, ,,	e	5 17 0	..	..	Do.
	f	5 38 0	..	..	
	AN				
August 2	e	16 57 43	..	..	Distant feeble shock.
	M	17 24 8	21	7	
	F	18 21 0	..	..	
	AN				
,, 3	P	1 53 53	..	..	
	S	1 57 3	..	..	
	L	1 58 39	..	..	
	M	1 59 14	4	5	
	F	2 8 0	..	..	
	AN				
,, 5	P	10 18 6	..	..	
	S	10 21 17	..	..	
	L	10 22 53	..	..	
	M	10 23 12	7	2	
	F	10 31 0	..	..	
	AN				
,, 6	P	7 38 27	..	..	
	S	7 41 37	..	..	
	L	7 43 14	..	..	
	M	7 47 59	8	2	
	F	8 1 0	..	..	
	AN				
,, 9	P	22 45 43	..	..	
	S	22 49 43	..	..	
	L	22 52 9	..	..	
	M	22 54 14	9	2	
	F	23 28 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
August 10	P	22 16 53	..	..	
	S	22 20 6	..	..	
	L	22 21 42	..	..	
	M	22 22 1	5	3	
	F	22 31 0	..	..	
	AN				
,, 12	e	0 0 0	..	..	Tremors.
	f	0 11 0	..	..	
	AN				
,, 13	e	19 21 0	..	..	Do.
	f	20 11 0	..	..	
	AN				
,, 14	e	23 33 0	..	..	Do.
,, 15	f	0 10 0	..	..	
	AN				
,, ,,	e	15 21 0	..	..	Tremors.
	f	15 50 0	..	..	
	AN				
,, 16	e	0 26 0	..	..	Do.
	f	0 41 0	..	..	
	AN				
,, ,,	e	15 32 0	..	..	Do.
	f	15 44 0	..	..	
	AN				
,, ,,	e	23 11 0	..	..	Do.
	f	23 28 0	..	..	
	AN				
,, 17	e	1 24 0	..	..	Do.
	f	1 39 0	..	..	
	AN				
,, ,,	e	3 35 0	..	..	Do.
	f	3 57 0	..	..	
	AN				
,, ,,	P	12 33 43	..	..	
	S	12 37 33	..	..	
	L	12 39 49	..	..	
	M	12 47 34	11	3	
	F	13 44 0	..	..	
	AN				
,, 18	P	10 12 8	..	..	
	S	10 20 43	..	..	
	L	10 35 3	..	..	
	M	10 53 22	18	12	
	F	13 0 0	..	..	

Date.	Phase.	Time. G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
August 19	P	6 10 10	..	..	
	S	6 13 23	..	..	
	L	6 14 58	..	..	
	M	6 15 22	7	2	
	F	6 21 0	..	..	
	AN				
,, 20	e	5 19 0	..	..	Tremors.
	f	5 57 0	..	..	
	AN				
,, ,,	P	21 2 36	..	..	
	S	21 9 20	..	..	
	L	21 17 43	..	..	
	M	21 21 14	16	36	
	F	23 15 0	..	..	
	AN				
,, 22	P	9 50 30	..	..	
	S	9 55 11	..	..	
	L	9 58 41	..	..	
	M	10 2 2	12	4	
	F	10 42 0	..	..	
	AN				
,, 23	P	10 57 34	..	..	
	S	11 1 29	..	..	
	L	11 2 53	..	..	
	M	11 9 15	15	17	
	F	13 10 0	..	..	
	AN				
,, ,,	Pe	15 7 13	..	..	
	S	15 11 55	..	..	
	L	15 15 23	..	..	
	M	15 19 49	13	4	
	F	16 15 0	..	..	
	AN				
,, 24	Pe	9 21 28	..	..	Feeble shock.
	F	10 33 0	..	..	
	AN				
,, ,,	P	11 1 59	..	..	
	S	11 5 55	..	..	
	L	11 8 9	..	..	
	M	11 8 33	11	5	
	F	11 38 0	..	..	
	AN				
,, 27	e	23 23 0	..	..	Tremors.
	f	23 35 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
Aug. 28	e	3 58 0	..	..	Tremors.
	f	4 32 0	..	..	
	AN				
„ „	e	4 50 0	..	..	Tremors.
	f	5 10 0	..	..	
	AN				
„ 29	e	21 12 0	..	..	Tremors.
	f	21 24 0	..	..	
	AN				
„ 30	P	10 9 37	..	..	
	S	10 14 28	..	..	
	L	10 18 18	..	..	
	M	10 25 11	10	5	
	F	11 27 0	..	..	
	AN				
„ 30	P	13 29 21	..	..	
	S	13 30 33	..	..	
	L	13 30 55	..	..	
	M	13 31 22	7	2	
	F	13 37 0	..	..	
	AN				
„ 31	e	3 50 0	..	..	Tremors.
	f	4 6 0	..	..	
	AN				
Sept. 1	P	5 23 23	..	..	
	S	5 27 45	..	..	
	L	5 31 5	..	..	
	M	5 31 33	7	4	
	F	6 8 0	..	..	
	AN				
„ „	P	17 47 20	..	..	
	S	17 50 50	..	..	
	L	17 52 56	..	..	
	M	17 54 12	10	29	
	F	19 3 0	..	..	
	AN				
„ 2	P	19 3 47	..	..	
	S	19 8 3	..	..	
	L	19 10 53	..	..	
	M	19 19 54	9	3	
	F	19 52 0	..	..	
	AN				
„ 5	P	10 18 11	..	..	
	S	10 21 41	..	..	
	L	10 23 37	..	..	
	M	10 26 0	8	2	
	F	10 58 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
Sept. 5	Pe	16 24 51	..	..	Very feeble shock.
	M	16 35 25	17	3	
	F	16 58 0	..	..	
	AN				
„ 8	e	8 44 14	..	..	Distant feeble shock.
	f	10 22 0	..	..	
	AN				
„ 9	e	23 10 0	..	..	Tremors.
	f	Lost in Shifting time.			
	AN				
„ 10	e	9 21 14	..	..	Very feeble shock.
	M	9 40 32	12	3	
	F	10 57 0	..	..	
	AN				
„ 11	e	4 0 0	..	..	Tremors.
	f	4 20 0	..	..	
	AN				
„ „	P	12 44 29	..	..	Slight shock.
	S	12 50 53	..	..	
	L	12 58 17	..	..	
	M	13 5 33	17	5	
	F	13 31 0	..	..	
	AN				
„ „	P	17 24 2	..	..	Feeble shock.
	S	17 27 13	..	..	
	L	17 28 50	..	..	
	F	17 46 0	..	..	
	AN				
„ 12	e	2 13 0	..	..	Tremors.
	f	2 25 0	..	..	
	AN				
„ „	e	19 14 41	..	..	Distant feeble shock.
	F	20 20 0	..	..	
	AN				
„ 13	P	18 8 40	..	..	
	S	18 12 20	..	..	
	L	18 14 26	..	..	
	F	18 39 0	..	..	
	AN				
„ 14	e	0 16 0	..	..	Tremors.
	f	0 41 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
Sept. 14	P	3 25 37	..	..	
	Se	3 32 57	..	..	
	L	3 43 9	..	..	
	M	3 53 10	19	8	
	F	4 37 0	..	..	
	AN				
„ 14	e	9 32 5	..	..	Distant feeble Shock.
	f	11 12 0	..	..	
	AN				
„ 14	e	17 33 0	..	..	Tremors.
	f	17 59 0	..	..	
	AN				
„ 16	e	0 7 0	..	..	Do.
	f	0 20 0	..	..	
	AN				
„ 16	e	0 40 0	..	..	Do.
	f	0 51 0	..	..	
	AN				
„ 16	e	11 8 5	..	..	Very feeble shock.
	M	11 19 5	9	2	
	F	11 34 0	..	..	
	AN				
„ 20	e	4 19 0	..	..	Tremors.
	f	4 33 0	..	..	
	AN				
„ 20	P	13 5 39	..	..	Feeble shock.
	S	13 9 8	..	..	
	L	13 11 6	..	..	
	M	13 11 17	12	2	
	F	13 32 0	..	..	
	AN				
„ 21	P	23 9 39	..	..	
	S	23 14 2	..	..	
	L	23 17 16	..	..	
	M	23 17 44	6	12	
„ 22	F	1 46 0	..	..	
	AN				
„ 22	Pe	1 51 12	..	..	Slight shock.
	S	2 0 42	..	..	
	L	Lost in Shifting time.			
	M	2 47 12	18	12	
	F	4 44 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
Sepr. 22	P	4 59 52	..	..	
	S	5 4 36	..	..	
	L	5 8 2	..	..	
	M	5 8 14	7	7	
	F	5 54 0	..	..	
	AN				
„ 22	P	7 20 58	..	..	
	S	7 24 37	..	..	
	L	7 26 54	..	..	
	M	7 28 36	8	2	
	F	7 50 0	..	..	
	AN				
„ 22	P	14 23 49	..	..	
	S	14 27 30	..	..	
	L	14 29 41	..	..	
	F	16 0 0	..	..	
	AN				
„ 22	P	16 31 11	..	..	
	S	16 34 55	..	..	
	L	16 36 58	..	..	
	M	16 37 50	6	4	
	F	17 24 0	..	..	
	AN				
„ 23	Pe	5 47 15	..	..	
	S	5 51 15	..	..	
	L	5 53 38	..	..	
	M	5 54 4	5	2	
	F	6 4 0	..	..	
	AN				
„ 23	P	10 19 28	..	..	Feeble shock.
	S	10 23 7	..	..	
	L	10 25 23	..	..	
	F	10 44 0	..	..	
	AN				
„ 23	P	12 14 59	..	..	
	S	12 18 40	..	..	
	L	12 20 50	..	..	
	M	12 23 58	7	2	
	F	12 53 0	..	..	
	AN				
„ 24	P	3 29 19	..	..	
	S	3 31 48	..	..	
	L	3 33 7	..	..	
	M	3 35 27	10	3	
	F	3 53 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
Sept. 24	P	12 15 21	..	..	
	S	12 23 44	..	..	
	L	12 37 25	..	..	
	M	12 41 1	18	5	
	F	13 30 0	..	..	
	AN				
„ 24	P	14 45 50	..	..	
	S	14 46 50	..	..	
	L	14 47 7	..	..	
	M	14 47 20	7	2	
	F	14 59 0	..	..	
	AN				
„ 25	P	13 47 20	..	..	
	S	13 51 12	..	..	
	L	13 53 16	..	..	
	M	13 53 55	8	2	
	F	14 6 0	..	..	
	AN				
„ 25	e	17 15 0	..	..	Tremors.
	f	17 25 0	..	..	
	AN				
„ 25	e	18 30 0	..	..	Do.
	f	lost in following shock.			
	AN				
„ 25	P	18 38 59	..	..	
	S	18 43 30	..	..	
	L	18 46 47	..	..	
	M	18 47 2	8	14	
	F	20 18 0	..	..	
	AN				
„ 26	e	8 50 0	..	..	Do.
	f	9 17 0	..	..	
	AN				
„ 29	P	10 8 44	..	..	Feeble shock.
	S	10 11 48	..	..	
	L	10 13 10	..	..	
	F	10 31 0	..	..	
	AN				
„ 29	P	13 31 21	..	..	
	S	13 34 29	..	..	
	L	13 35 55	..	..	
	M	13 36 50	8	6	
	F	14 16 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
Sept. 30	P	13 10 1	..	..	Feeble shock.
	S	13 14 17	..	..	
	L	13 17 12	..	..	
	F	13 47 0	..	..	
	AN				
„ 30	P	21 32 38	..	..	
	S	21 42 26	..	..	
	L	22 0 58	..	..	
	M	22 10 49	19	7	
	F	23 32 0	..	..	
	AN				
October 1	P	3 1 14	..	..	Do.
	S	3 8 32	..		
	L	3 18 14	..	..	
	F	3 45 0	..	..	
	AN				
„ 2	P	0 52 32	..	..	Do.
	S	1 1 52	..		
	L	1 19 16	..	..	
	F	1 47 0	..	..	
	AN				
„ 2	P	15 38 31	..	..	
	S	15 43 7	..	..	
	L	15 46 7			
	M	15 50 18	15	4	
	F	16 18 0	..	..	
	AN				
„ 5	P	5 32 0	..	..	Very feeble shock.
	F	5 47 0	..	..	
	AN				
	e	19 34 0	..	..	Tremors.
	f	19 56 0	..	..	
	AN				
„	e	18 13 4	..	..	Feeble shock.
	M	18 16 20	14	3	
	F	18 29 0	..	..	
	AN				
7	P	2 36 47	..	..	Do.
	S	2 41 27	..	..	
	Le	2 44 51	..	..	
	F	3 1 0	..	..	
	AN				
„ 7	P	20 58 25	..	..	Do
	Se	21 2 58	..	..	
	Le	21 7 38	..	..	
	F	21 32 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
October 8	P	10 33 26	..	..	
	S	10 43 44	..	..	
	L	11 3 57	..	..	
	M	11 28 56	18	10	
	F	13 9 0	..	..	
	AN				
,, 9	P	21 35 23	..	..	
	S	21 39 46	..	..	
	L	21 42 42	..	..	
	M	21 43 12	8	4	
	F	22 12 0	..	..	
	AN				
,, 10	P	0 42 33	..	..	
	S	0 46 55	..	..	
	L	0 50 17	..	..	
	M	0 50 47	7	10	
	F	1 35 0	..	..	
	AN				
,, 11	e	3 44 0	..	..	Tremors.
	f	4 6 0	..	..	
	AN				
,, 12	P	15 11 24	..	..	Feeble shock.
	S	15 15 22	..	..	
	Le	15 17 57	..	..	
	F	15 33 0	..	..	
	AN				
,, 12	e	20 4 0	..	..	Tremors.
	f	20 22 0	..	..	
	AN				
,, 13	Pe	8 19 5	..	..	Feeble shock.
	F	8 36 0	..	..	
	AN				
,, 15	P	11 19 24	..	..	Do.
	S	11 22 44	..	..	
	L	11 24 19	..	..	
	F	11 36 0	..	..	
	AN				
,, 16	e	21 54 0	..	..	Tremors.
	f	22 25 0	..	..	
	AN				
,, 17	P	9 6 19	..	..	
	S	9 19 42	..	..	
	L	9 55 42	..	..	
	M	10 5 57	20	6	
	F	10 51 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
October 23	e	9 57 0	..	..	Tremors.
	f	10 52 0	..	..	
	AN				
,, 24	Pe	1 13 40	..	..	Very feeble shock.
	F	1 19 0	..	..	
	AN				
,, 24	P	10 54 28	..	..	
	S	10 58 33	..	..	
	L	11 1 17	..	..	
	M	11 2 34	14	5	
	F	11 44 0	..	..	
,, 24	P	20 26 17	..	..	
	S	20 34 47	..	..	
	L	20 51 13	..	..	
	M	20 56 21	19	31	
	F	23 57 0	..	..	
	AN				
,, 25	P	4 23 59	..	..	
	S	4 26 44	..	..	
	L	4 27 47	..	..	
	M	4 27 59	10	2	
	F	4 42 0	..	..	
	AN				
,, 25	P	12 16 19	..	..	
	S	12 26 43	..	..	
	Le	12 50 16	..	..	
	M	13 1 43	15	4	
	F	13 30 0	..	..	
	AN				
,, 25	e	16 40 0	..	..	Tremors.
	f	17 13 0	..	..	
	AN				
,, 25	e	17 53 0	..	..	Do.
	f	18 21 0	..	..	
	AN				
,, 25	P	23 40 42	..	..	
	S	23 45 50	..	..	
	L	23 49 55	..	..	
	M	23 53 52	20	5	
,, 26	F	0 13 0	..	..	
	AN				
,, 27	P	23 34 45	..	..	
	S	23 39 27	..	..	
	L	23 43 1	..	..	
	M	23 43 48	10	3	
,, 28	F	0 13 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN AE.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
Oct. 28	P	21 30 33	..	..	
	S	21 36 6	..	..	
	L	21 41 12	..	..	
	M	21 55 23	20	9	
	F	22 37 0	..	..	
	AN				
,, 30	P	7 22 49	..	..	
	S	7 30 29	..	..	
	L	7 42 8	..	..	
	M	7 46 4	20	5	
	F	8 9 0	..	..	
	AN				
,, 31	e	10 38 31	..	..	Feeble Distant Shock.
	M	11 31 1	20	6	
	F	12 54 0	..	..	
	AN				
,, 31	e	13 44 0	..	..	Tremors.
	f	13 58 0	..	..	
	AN				
Nov. 3	P	18 48 59	..	..	Feeble Shock.
	S	18 58 49	..	..	
	L	19 16 59	..	..	
	F	19 55 0	..	..	
	AN				
,, 4	P	7 19 23	..	..	Very feeble Shock.
	F	7 29 0	..	..	
	AN				
,, 4	P	15 43 24	..	..	
	S	15 47 56	..	..	
	L	15 51 14	..	..	
	M	15 51 26	7	11	
	F	16 38 0	..	..	
	AN				
,, 8	P	3 30 44	..	..	
	S	3 37 8	..	..	
	L	3 44 25	..	..	
	M	3 51 44	10	2	
	F	4 21 0	..	..	
	AE				
,, 8	P	3 30 44	..	..	
	S	3 37 8	..	..	
	L	3 44 25	..	..	
	M	3 45 50	8	2	
	F	4 31 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN AE.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
Nov. 9	P	19 18 53	..	..	
	S	19 27 9	..	..	
	L	19 40 33	..	..	
	M	19 45 12	24	95	
	F	21 45 0	..	..	
	AE				
,, ,,	P	19 18 53	..	..	
	S	19 27 9	..	..	
	L	19 40 33	..	..	
	M	19 42 28	22	66	
	F	22 19 0	..	..	
	AN				
,, 10	P	13 55 12	..	..	
	S	14 4 8	..	..	
	L	14 19 8	..	..	
	M	14 24 1	9	3	
	F	16 6 0	..	..	
	AE				
,, 10	P	13 55 12	..	..	
	S	14 4 8	..	..	
	L	14 19 8	..	..	
	M	14 24 40	19	8	
	F	16 6 0	..	..	
	AN				
,, 11	P	8 38 26	..	..	
	S	8 44 36	..	..	
	L	8 51 36	..	..	
	M	8 55 15	9	3	
	F	9 29 0	..	..	
	AE				
,, 11	P	8 38 26	..	..	
	S	8 44 36	..	..	
	L	8 51 36	..	..	
	M	8 56 45	10	2	
	F	9 29 0	..	..	
	AN				
,, 12	P	19 23 24	..	..	
	S	19 34 12	..	..	
	L	19 56 6	..	..	
	M	20 4 21	21	7	
	F	21 11 0	..	..	
	AE				
,, 12	P	19 23 24	..	..	
	S	19 34 12	..	..	
	L	19 56 6	..	..	
	M	20 4 12	21	5	
	F	21 11 0	..	..	

Date.	Phase	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN	Amplitude (μ) AE	Remarks.
1930—*contd.*		H. M. S.				
	AN					
Nov. 13	e	23 18 0	..	..		Tremors.
	f	23 49 0	..	..		
	AE					
„ 13	e	23 18 0	..	..		Do.
	f	23 49 0	..	..		
	AN					
„ 16	P	3 27 23	..	..		
	S	3 30 42	..	..		
	L	3 32 27	..	..		
	F	3 56 0	..	..		
	AE					
„ 16	P	3 27 23	..	..		
	S	3 30 42	..	..		
	L	3 32 27	..	..		
	F	3 56 0	..	..		
	AN					
„ 16	e	16 31 0	..	..		Do.
	f	16 50 0	..	..		
	AE					
„ 16	e	16 31 0	..	..		Do.
	f	16 50 0	..	..		
	AN					
„ 17	P	12 18 53	..	..		
	S	12 27 31	..	..		
	L	12 41 41	..	..		
	M	12 48 8	27	9		
	F	13 36 0	..	..		
	AE					
„ 17	P	12 18 53	..	..		
	S	12 27 31	..	..		
	L	12 41 41	..	..		
	M	12 44 46	29	7		
	F	13 36 0	..	..		
	AN					
„ 21	P	2 11 24	..	..		
	S	2 16 32	..	..		
	L	Lost in shifting time.				
	M	2 36 30	16	4		
	F	3 15 0	..	..		
	AE					
„ 21	P	2 11 24	..	..		
	S	2 16 32	..	..		
	L	Lost in shifting time.				
	M	2 33 28	24	5		
	F	3 15 0	..	..		

Date.	Phase	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN	Amplitude (μ) AE	Remarks.
1930—*contd.*		H. M. S.				
	AN					
Nov. 21	P	3 26 56	..	..		Very feeble shock.
	F	3 46 0	..	..		
	AE					
„ 21	P	3 26 56	..	..		Do.
	F	3 46 0	..	..		
	AN					
„ 22	P	14 21 6	..	..		
	S	14 31 43	..	..		
	L	14 53 13	..	..		
	M	15 11 2	20	9		
	F	16 13 0	..	..		
	AE					
„ 22	P	14 21 6	..	..		
	S	14 31 43	..	..		
	L	14 53 13	..	..		
	M	15 14 25	16	4		
	F	16 28 0	..	..		
	AN					
„ 23	P	16 0 27	..	..		
	S	16 6 1	..	..		
	L	16 11 1	..	..		
	M	16 15 33	12	2		
	F	17 8 0	..	..		
	AE					
„ 23	P	16 0 27	..	..		
	S	16 6 1	..	..		
	L	16 11 1	..	..		
	M	16 17 0	12	1		
	F	17 8 0	..	..		
	AN					
„ 24	e	3 50 0	..	..		Tremors.
	f	4 8 0	..	..		
	AE					
„ 24	e	3 50 0	..	..		Do.
	f	4 8 0	..	..		
	AN					
„ 24	P	6 23 31	..	..		Feeble shock.
	S	6 26 20	..	..		
	L	6 27 40	..	..		
	F	6 39 0	..	..		
	AE					
„ 24	P	6 23 31	..	..		Do.
	S	6 26 20	..	..		
	L	6 27 40	..	..		
	F	6 39 0	..	..		

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN AE.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
Nov. 25	P	19 13 2	..	..	
	S	19 21 14	..	..	
	L	19 34 9	..	..	
	M	19 38 11	18	157	
	F	23 1 0	..	..	
	AE				
,, 25	P	19 13 2	..	..	
	S	19 21 14	..	...	
	L	19 34 9	..	..	
	M	19 38 6	20	93	
	F	23 1 0	..	..	
	AN				
,, 28	P	3 24 37	..	..	Very feeble shock.
	F	3 33 0	..	..	
	AE				
,, 28	P	3 24 37	..	..	Do.
	F	3 33 0	..	..	
	AN				
,, 28	Pe	7 32 36	..	..	Do.
	F	7 42 0	..	..	
	AE				
,, 28	Pe	7 32 36	..	..	Do.
	F	7 42 0	..	..	
	AN				
,, 28	e	8 56 0	..	..	Tremors.
	f	9 11 0	..	..	
	AE				
,, 28	e	8 56 0	..	..	Do.
	f	9 11 0	..	..	
	AN				
,, 30	P	0 43 43	..	..	
	S	0 46 35	..	..	
	L	0 47 53	..	..	
	M	0 49 48	9	2	
	F	1 7 0	..	..	
	AE				
,, 30	P	0 43 43	..	..	
	S	0 46 35	..	..	
	L	0 47 53	..	..	
	M	0 48 56	8	1	
	F	1 7 0	..	..	
	AN				
Dec. 1	P	0 23 10	..	..	
	S	0 27 16	..	..	
	L	0 30 10	..	..	
	M	0 32 21	8	2	
	F	0 59 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN AE.	Remarks.
1930—*contd.*		H. M. S.			
	AE				
Dec. 1	P	0 23 10	..	..	
	S	0 27 16	..	..	
	L	0 30 10	..	..	
	M	0 32 19	10	2	
	F	0 59 0	..	..	
	AN				
,, 2	P	7 6 47	..	..	
	S	7 11 14	..	..	
	L	7 14 29	..	..	
	M	7 15 54	8	30	
	F	8 41 0	..	..	
	AE				
,, 2	P	7 6 47	..	..	
	S	7 11 14	..	..	
	L	7 14 29	..	..	
	M	7 20 5	9	14	
	F	8 41 0	..	..	
	AN				
,, 3	P	15 47 19	..	..	
	S	15 51 23	..	..	
	L	15 54 8	..	..	
	M	15 59 38	9	3	
	F	16 28 0	..	..	
	AE				
,, 3	P	15 47 19	..	..	
	S	15 51 23	..	..	
	L	15 54 8	..	..	
	M	16 1 35	8	2	
	F	16 28 0	..	..	
	AN				
,, 3	P	16 41 20	..	..	
	S	16 45 28	..	..	
	L	16 48 8	..	..	
	M	16 53 17	13	10	
	F	17 33 0	..	..	
	AE				
,, 3	P	16 41 20	..	..	
	S	16 45 28	..	..	
	L	16 48 8	..	..	
	M	16 55 17	9	6	
	F	17 33 0	..	..	
	AN				
,, 3	P	18 56 41	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN	Amplitude (μ) AE.	Remarks.
1930—*contd.*		H. M. S.				
Dec. 3	S	19 0 48	..	..		
	L	19 3 30	..	..		
	M	19 11 1	10	270		
	F	23 0 0	..	..		
	AE					
„ 3	P	18 56 41	..	..		
	S	19 0 48	..	..		
	L	19 3 30	..	..		
	M	19 12 15	12	310		
	F	23 7 0	..	..		
	AN					
„ 4	P	6 23 40	..	..		
	S	6 27 48	..	..		
	L	6 30 28	..	..		
	M	6 32 31	10	4		
	F	7 6 0	..	..		
	AE					
„ 4	P	6 23 40	..	..		
	S	6 27 48	..	..		
	L	6 30 28	..	..		
	M	6 35 12	12		3	
	F	7 6 0	..	..		
	AN					
„ 6	P	7 16 19	..	..		
	S	7 26 44	..	..		
	L	7 47 49	..	..		
	M	8 0 24	18	5		
	F	8 46 0	..	..		
	AE					
„ 6	P	7 16 19	..	..		
	S	7 26 44	..	..		
	L	7 47 49	..	..		
	M	8 0 0	21		7	
	F	8 46 0	..	..		
	AN					
„ 6	P	9 26 43	..	..		Very feeble shock.
	F	9 48 0	..	..		
	AE					
„ 6	P	9 26 43	..	..		Do.
	F	9 48 0	..	..		
	AN					
„ 7	e	22 15 0	..	..		Tremors.
	f	22 23 0	..	..		
	AE					
„ 7	e	22 15 0	..	..		Do.
	f	22 23 0	..	..		

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN	Amplitude (μ) AE.	Remarks.
1930—*contd.*		H. M. S.				
	AN					
Dec. 7	P	23 51 16	..	..		Feeble shock.
	S	23 54 40	..	..		
	L	23 56 10	..	..		
„ 8	F	0 17 0	..	..		
	AE					
„ 7	P	23 51 16	..	..		Do.
	S	23 54 40	..	..		
	L	23 56 10	..	..		
„ 8	F	0 17 0	..	..		
	AN					
„ 8	e	6 34 40	..	..		Do.
	M	6 51 50	10	2		
	F	7 14 0	..	..		
	AE					
„ 8	e	6 34 40	..	..		Do.
	M	6 48 10	12		2	
	F	7 14 0	..	..		
	AN					
„ 8	P	8 9 10	..	..		
	S	8 16 0	..	..		
	L	8 24 18	..	..		
	M	8 29 16	11	4		
	F	9 16 0	..	..		
	AE					
„ 8	P	8 9 10	..	..		
	S	8 16 0	..	..		
	L	8 24 18	..	..		
	M	8 29 14	13		4	
	F	9 16 0	..	..		
	AN					
„ 8	Pe	17 41 27	..	..		
	S	17 52 29	..	..		
	L	18 15 17	..	..		
	M	18 31 49	19	5		
	F	19 48 0	..	..		
	AE					
„ 8	Pe	17 41 27	..	..		
	S	17 52 29	..	..		
	L	18 15 17	..	..		
	M	18 33 55	20		4	
	F	19 48 0	..	..		

Date.	Phase.	Time. G. M. T.	Period (Sec.).	Amplitude (μ) AN AE.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
Dec. 9	P	0 37 32	..	..	
	S	0 41 30	..	..	
	L	0 42 44	..	..	
	M	0 43 12	10	2	
	F	0 59 0	..	..	
	AE				
,, 9	P	0 37 32	..	..	
	S	0 41 30	..	..	
	L	0 42 44	..	..	
	M	0 45 43	7	1	
	F	0 59 0	..	..	
	AN				
,, 10	P	10 38 28	..	..	
	S	10 44 10	..	..	
	L	10 49 28	..	..	
	M	10 54 8	15	4	
	F	11 45 0	..	..	
	AE				
,, 10	P	10 38 28	..	..	
	S	10 44 10	..	..	
	L	10 49 28	..	..	
	M	10 54 35	16	7	
	F	11 45 9	..	..	
	AN				
,, 12	P	2 58 44	..	..	
	S	3 3 16	..	..	
	L	3 6 40	..	..	
	M	3 6 45	7	3	
	F	3 29 0	..	..	
	AE				
,, 12	P	2 58 44	..	..	
	S	3 3 16	..	..	
	L	3 6 40	..	..	
	M	3 11 29	8	1	
	F	3 29 0	..	..	
	AN				
,, 12	e	6 58 0	..	..	Tremors.
	f	7 11 0	..	..	
	AE				
,, 12	e	6 58 0	..	..	Do.
	f	7 11 0	..	..	
	AN				
,, 12	P	11 53 7	..	..	Feeble local shock.
	S	11 54 35	..	..	
	L	Lost in hourly break.			
	F	12 3 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec).	Amplitude (μ) AN AE.	Remarks.
1930—*contd.*		H. M. S.			
	AE				
Dec. 12	P	11 53 7	..	..	Feeble local shock.
	S	11 54 35	..	..	
	L	Lost in hourly break.			
	F	12 3 0	..	..	
	AN				
,, 13	e	3 21 0	..	..	Tremors.
	f	3 54 0	..	..	
	AN				
,, 13	e	14 31 0	..	..	Do.
	f	15 20 0	..	..	
	AE				
,, 13	e	14 31 0	..	..	Do.
	f	15 20 0	..	..	
	AN				
,, 13	P	16 33 34	..	..	
	S	16 37 46	..	..	
	L	16 40 33	..	..	
	M	16 50 33	10	2	
	F	19 22 0	..	..	
	AE				
,, 13	P	16 33 34	..	..	
	S	16 37 46	..	..	
	L	16 40 33	..	..	
	M	16 43 14	22	6	
	F	17 28 0	..	..	
	AN				
,, 15	P	16 13 54	..	..	Feeble shock.
	F	16 55 0	..	..	
	AE				
,, 15	P	16 13 54	..	..	Do.
	F	16 55 0	..	..	
	AN				
,, 16	P	8 23 24	..	..	Do.
	S	8 26 48	..	..	
	L	8 28 47	..	..	
	F	8 46 0	..	..	
	AE				
,, 16	P	8 23 24	..	..	Do.
	S	8 26 48	..	..	
	L	8 28 47	..	..	
	F	8 46 0	..	..	

Date.	Phase	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN AE.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
Dec. 20	e	14 30 0	..	..	Tremors.
	f	14 55 0	..	..	
	AE				
„ 20	e	14 30 0	..	..	Do.
	f	14 55 0	..	..	
	AN				
„ 21	e	3 47 0	..	..	Do.
	f	4 12 0	..	..	
	AE				
„ 21	e	3 47 0	..	..	Do.
	f	4 12 0	..	..	
	AN				
„ 21	e	12 32 0	..	..	Do.
	f	13 16 0	..	..	
	AE				
„ 21	e	12 32 0	..	..	Do.
	f	13 16 0	..	..	
	AN				
„ 21	P	14 59 42	..	..	
	S	15 6 12	..	..	
	L	15 13 55	..	..	
	M	15 19 17	20	15	
	F	16 13 0	..	..	
	AE	No E-W record due to failure of shutter.			
	AN				
„ 22	P	0 6 22	..	..	
	S	0 15 17	..	..	
	L	0 31 42	..	..	
	M	0 40 54	14	6	
	F	1 28 0	..	..	
	AE	No E-W record due to failure of shutter.			
	AN				
„ 22	P	4 28 4	..	..	
	S	4 34 42	..	..	
	L	4 42 52	..	..	
	M	4 48 47	8	2	
	F	5 21 0	..	..	
	AE				
„ 22	P	4 28 4	..	..	
	S	4 34 42	..	..	
	L	4 42 52	..	..	
	M	4 48 2	11	2	
	F	5 21 0	..	..	

Date.	Phase.	Time. G. M. T.	Period (Sec.).	Amplitude (μ) AN AE.	Remarks.
1930—*contd.*		H. M. S.			
	AN				
Dec. 23	P	21 47 3	..	..	Feeble shock.
	S	21 56 27	..	..	
	L	22 13 29	..	..	
	F	22 53 0	..	..	
	AE				
„ 23	P	21 47 3	..	..	Do.
	S	21 56 27	..	..	
	L	22 13 29	..	..	
	F	22 53 0	..	..	
	AN				
„ 25	P	13 24 13	..	..	
	S	13 34 5	..	..	
	L	13 53 8	..	..	
	M	14 1 23	19	7	
	F	15 1 0	..	..	
	AE				
„ 25	P	13 24 13	..	..	
	S	13 34 5	..	..	
	L	13 53 8	..	..	
	M	14 2 7	22	8	
	F	15 1 0	..	..	
	AN				
„ 28	P	14 9 5	..	..	Do.
	S	14 10 41	..	..	
	L	14 11 11	..	..	
	F	14 17 0	..	..	
	AE				
„ 28	P	14 9 5	..	..	Do.
	S	14 10 41	..	..	
	L	14 11 11	..	..	
	F	14 17 0	..	..	
	AN				
„ 28	Pe	14 39 49	..	..	Do.
	S	14 43 29	..	..	
	Le	14 45 31	..	..	
	F	14 57 0	..	..	
	AE				
„ 28	Pe	14 39 49	..	..	Do.
	S	14 43 29	..	..	
	Le	14 45 31	..	..	
	F	14 57 0	..	..	
	AN				
„ 30	P	8 59 29	..	..	Do.
	S	9 2 59	..	..	
	L	9 5 7	..	..	
	F	9 18 0	..	..	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN. AE.	Remarks.
1930—*contd.*					
	AE				
Dec. 30	P	8 59 29	..	..	Feeble Shock
	S	9 2 59	..	..	
	L	9 5 7	..	..	
	F	9 18 0	..	..	
	AN				
„ 31	e	4 26 0	..	..	Tremors.
	f	4 35 0	..	..	
1930—*contd.*					
	AE				
Dec. 31	e	4 26 0	..	..	Tremors.
	f	4 35 0	..	..	
	AN				
„ 31	e	20 36 0	..	..	Do.
	f	20 50 0	..	..	
	AE				
„ 31	e	20 36 0	..	..	Do.
	f	20 50 0	..	..	

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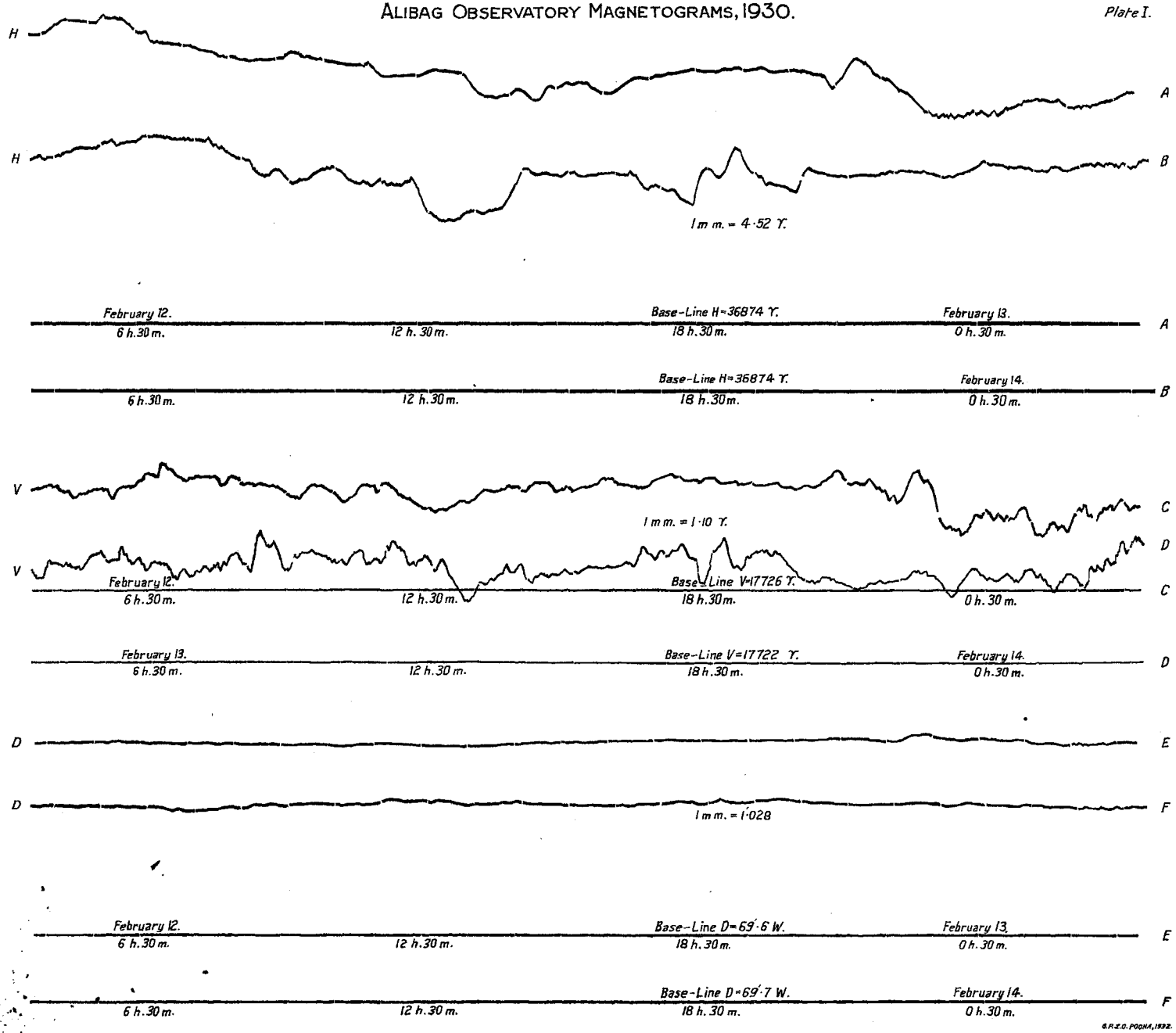
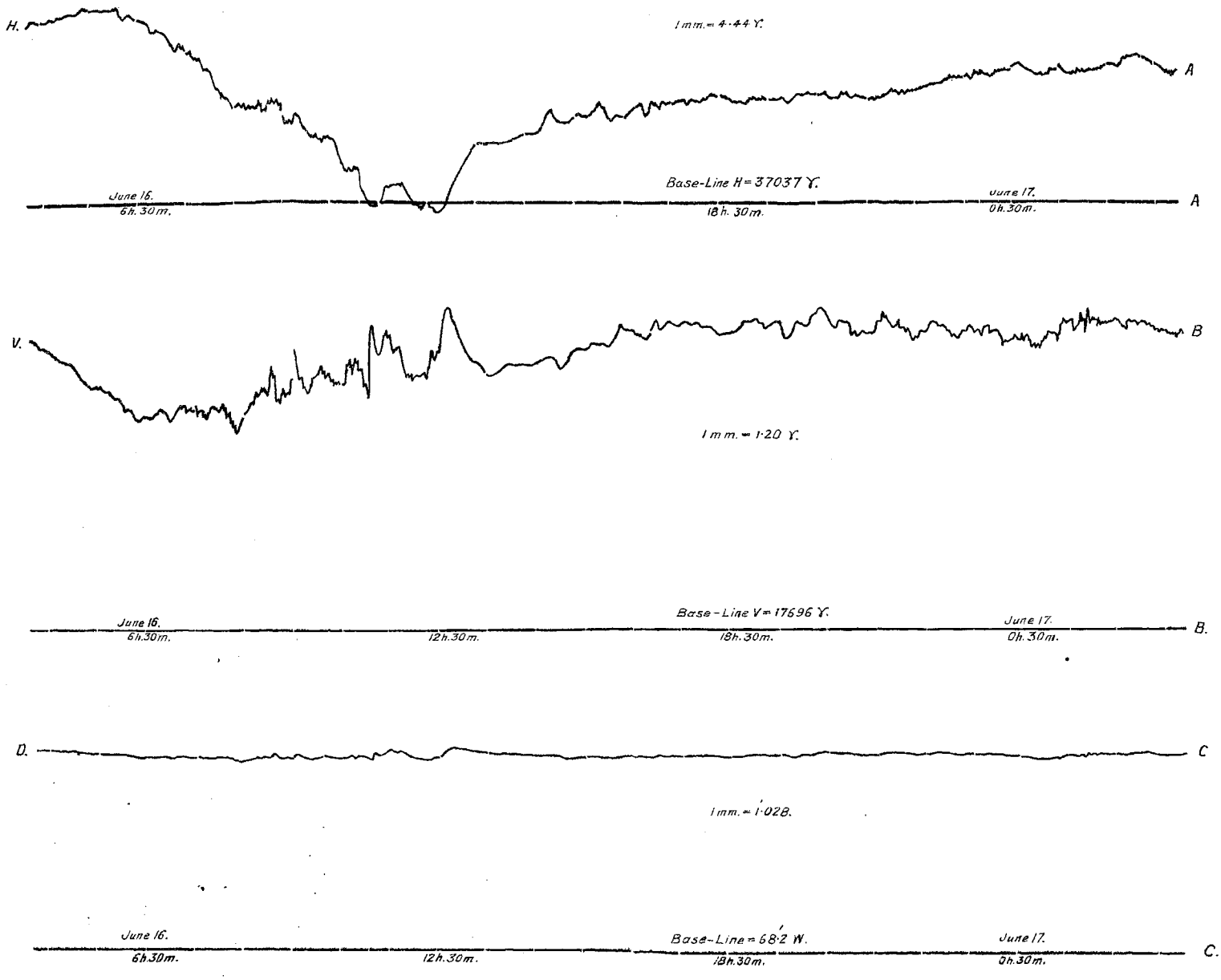
ALIBAG OBSERVATORY MAGNETOGRAMS, 1930.



G.P.I.C. POONA, 1932.

ALIBAG OBSERVATORY MAGNETOGRAMS, 1930.

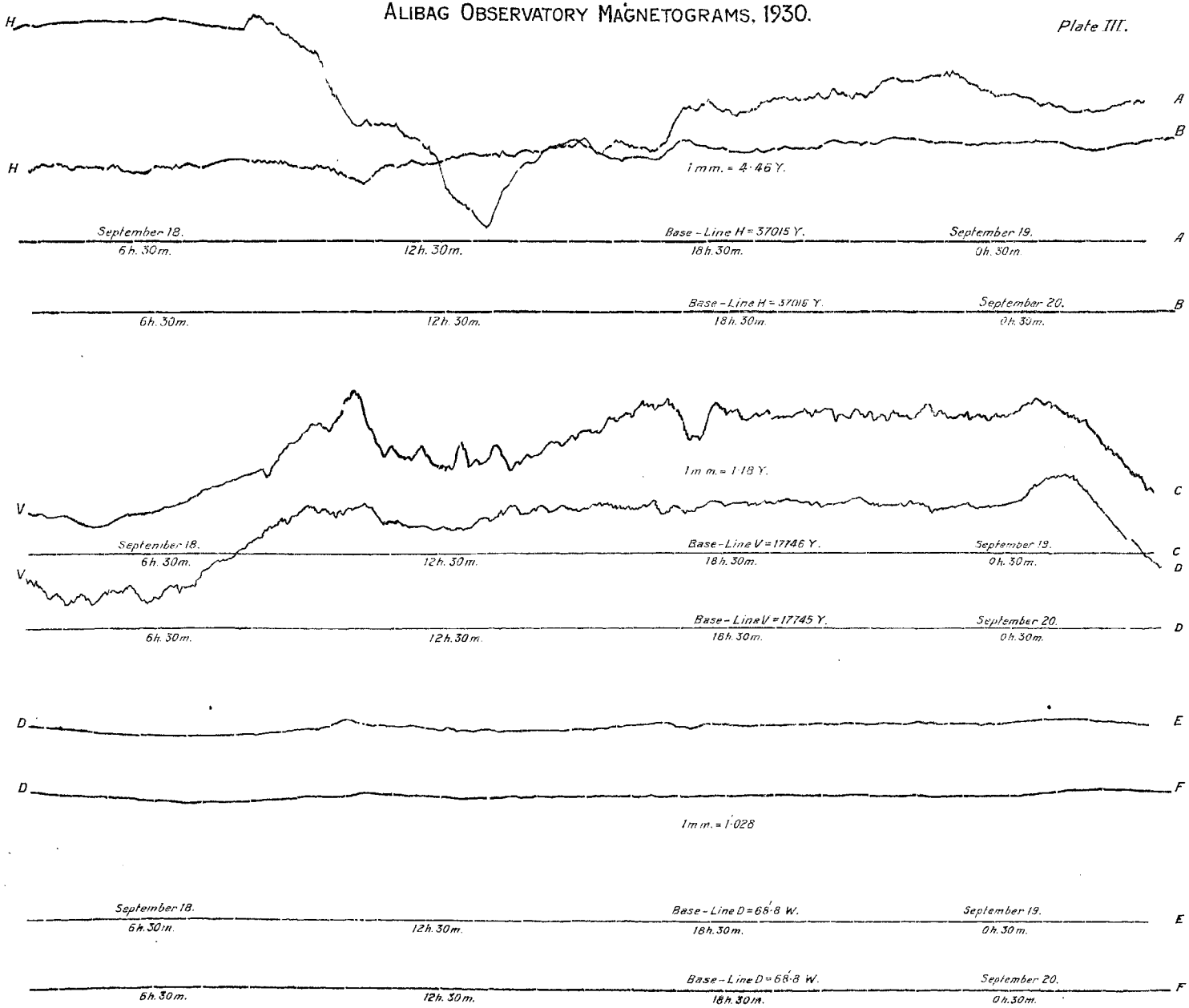
Plate II.



G.P.O. POONA 1932.

ALIBAG OBSERVATORY MAGNETOGRAMS, 1930.

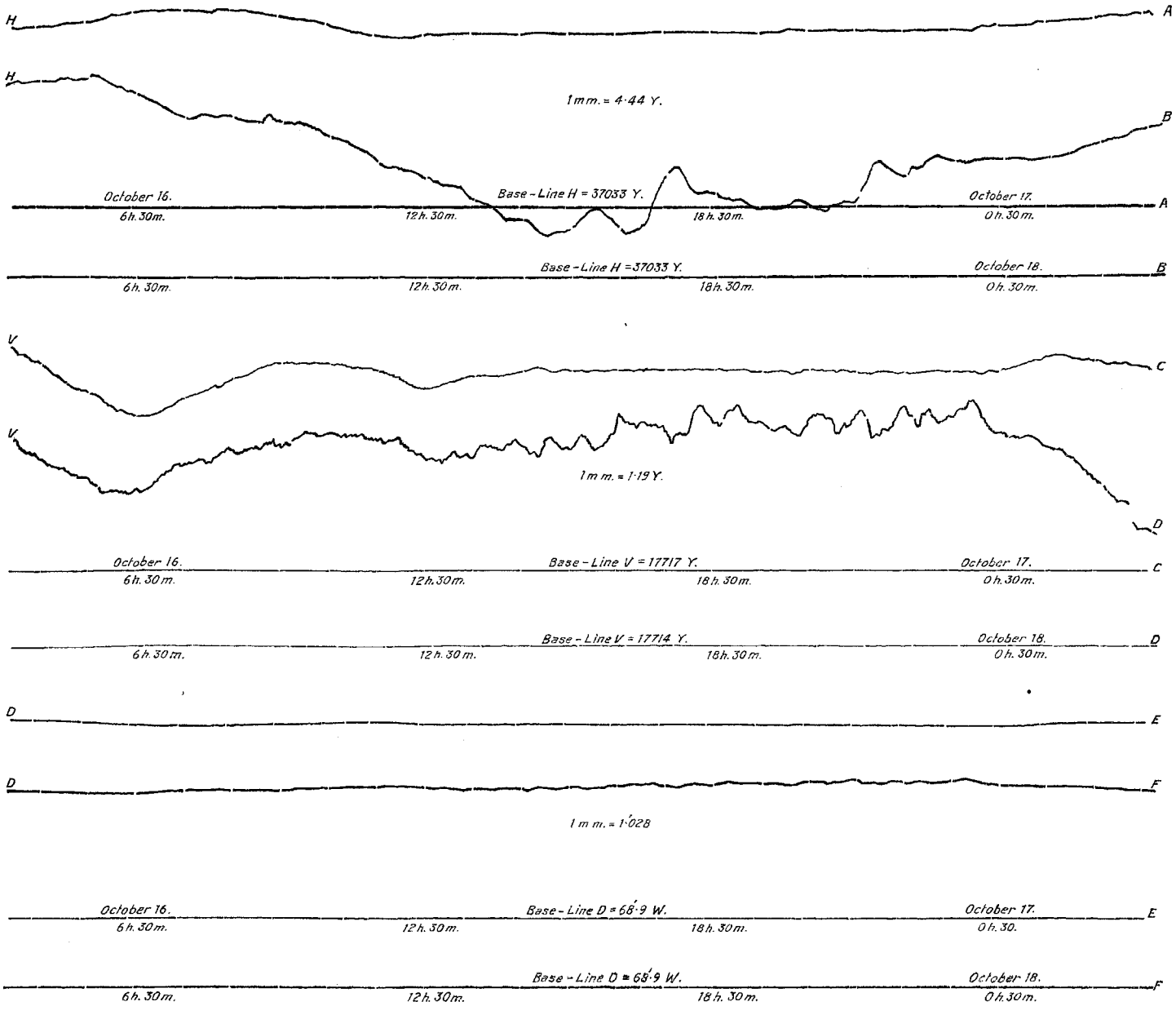
Plate III.



G.P.Z.O. Poona, 1932.

ALIBAG OBSERVATORY MAGNETOGRAMS, 1930.

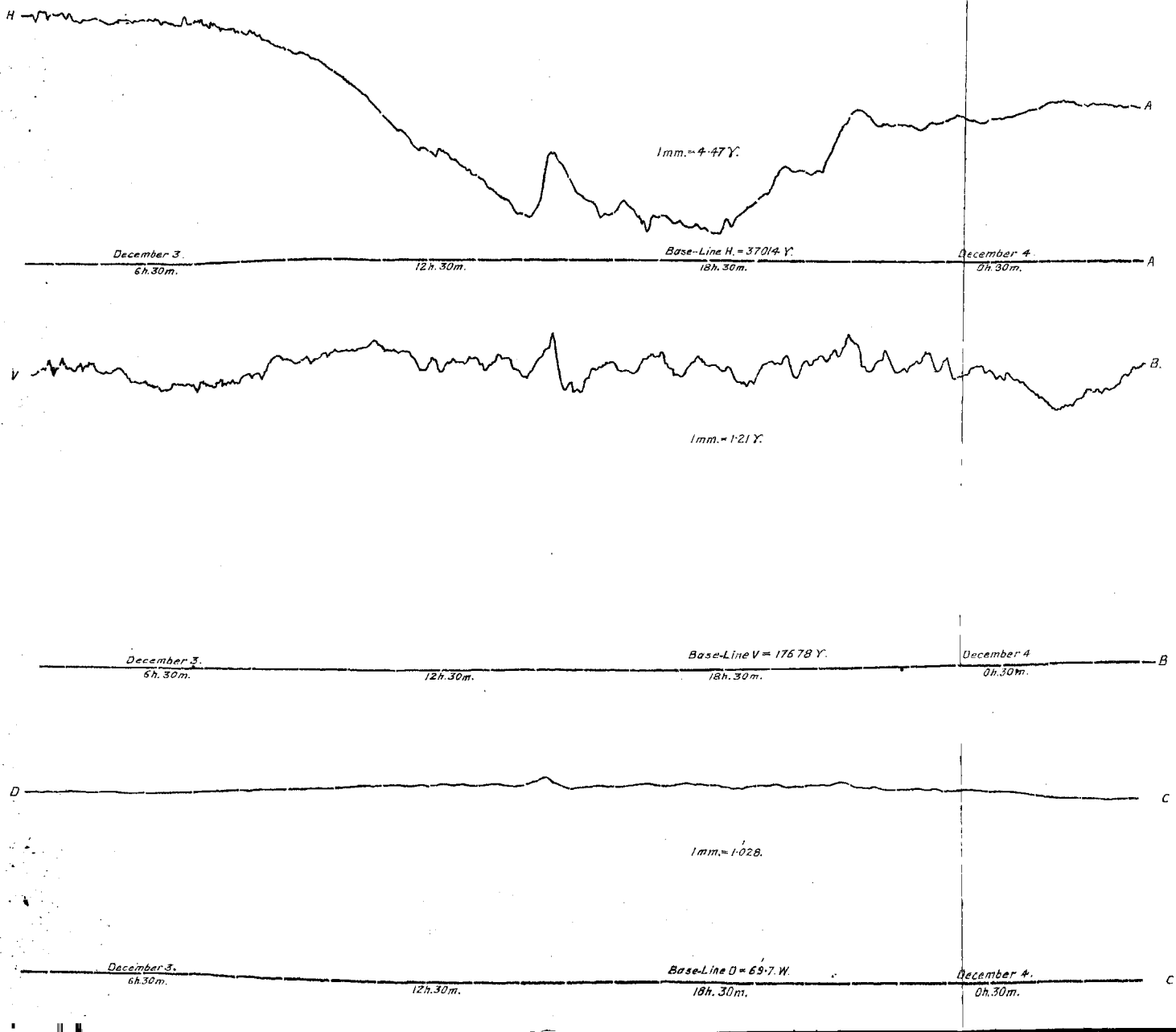
Plate IV.



G.P.Z.O. 1932.

ALIBAG OBSERVATORY MAGNETOGRAMS, 1930.

Plate V.



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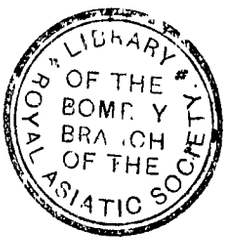

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